

CONFIRM™ anti-Lambda Rabbit Polyclonal Primary Antibody

Catalog Number 760-2515

INTENDED USE

This antibody is intended for in vitro diagnostic (IVD) use.

Ventana Medical Systems' (Ventana) CONFIRM anti-Lambda Rabbit Polyclonal Primary Antibody is directed against lambda immunoglobulin light chains. Staining for lambda light chains can be used to aid in the identification of cells of normal and abnormal B cell lineage. This antibody is intended for laboratory use to qualitatively stain B cells and plasma cells expressing lambda light chain immunoglobulins in sections of formalin fixed, paraffin embedded tissue on a Ventana automated slide stainer. CONFIRM anti-Lambda Rabbit Polyclonal specifically binds to antigens located in the cell membrane and cytoplasmic regions of normal B cells and plasma cells.

The clinical interpretation of any staining, or the absence of staining, must be complemented by morphological studies and evaluation of proper controls. Evaluation must be made by a qualified pathologist within the context of the patient's clinical history and other diagnostic tests. Prescription use only.

SUMMARY AND EXPLANATION

Lambda light chains are polypeptide chains which, in combination with heavy chains, form immunoglobulin molecules. There are two classes of light chains found in immunoglobulins, kappa light chains and lambda light chains. Light chain production by lymphoid cells is genetically restricted such that the immunoglobulin molecules produced by an individual cell will only contain a single light chain class. This clonal restriction may be used to indicate the polyclonal or monoclonal nature of B cell and plasma cell populations.^{1,2,3}

Because clonality is a clinically important attribute which aids in the subclassification of lymphomas (tumors of lymphoid origin¹), the identification of light chain class has gained increasing importance in immunopathology. A review of the use of anti-lambda light chain staining in the classification of tumors is presented in Taylor, CR (1978).⁴ CONFIRM anti-Lambda contains a rabbit polyclonal antibody raised to human lambda Fab fragment and made specific by solid phase adsorption.

PRINCIPLES OF THE PROCEDURE

CONFIRM anti-Lambda Rabbit Polyclonal may be used as the primary antibody for immunohistochemical staining of paraffin tissue sections. In general, immunohistochemical staining allows the visualization of antigens via the sequential application of a specific antibody (primary antibody) that binds to the antigen, a secondary antibody (link antibody) that binds to the primary antibody, an enzyme complex and a chromogenic substrate with interposed washing steps. The enzymatic activation of the chromogen results in a visible reaction product at the antigen site. The specimen may then be counterstained and cover slipped. Results are interpreted using a light microscope and aid in the differential diagnosis of pathophysiological processes, which may or may not be associated with a particular antigen.

CONFIRM anti-Lambda Rabbit Polyclonal is optimally diluted for use with *VIEW* DAB or *ultraView* Universal DAB detection kits and Ventana automated slide stainers. CONFIRM anti-Lambda Rabbit Polyclonal is compatible with Enhanced Alkaline Phosphatase Red, AEC, and *ultraView* Universal Red detection kits. Each step in the staining protocol includes incubation for a precise time at a specific temperature. At the end of each incubation step, the sections are rinsed by the Ventana automated slide stainer to stop the reaction and remove unbound material that would hinder the desired reaction in subsequent steps. To minimize evaporation of the aqueous reagents from the specimen containing slide, a coverslip solution is applied in the slide stainer. Staining is completed after incubation with a substrate chromogen and optional counterstaining. For more detailed information on instrument operation, refer to the appropriate Ventana automated slide stainer Operator's Manual.

MATERIALS

Reagents Provided

CONFIRM anti-Lambda Rabbit Polyclonal contains sufficient reagent for 50 tests.

1 – 5 mL dispenser of CONFIRM anti-Lambda Rabbit Polyclonal contains approximately 22 µg of a rabbit polyclonal antibody directed against an epitope present on human lambda light chains present in tissue.

The antibody is diluted in 0.05 M Tris-HCl with 2% carrier protein, and 0.10% ProClin 300, a preservative containing the active ingredients 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one.

Total protein concentration of the reagent is approximately 14 µg/mL. Specific antibody concentration is approximately 4.4 µg/mL. There is no known irrelevant antibody reactivity observed in this product.

Reconstitution, Mixing, Dilution, Titration

This antibody is optimized for use on a Ventana automated slide stainer in combination with *VIEW* DAB or *ultraView* Universal DAB detection kits. No reconstitution, mixing, dilution, or titration is required.

Further dilution may result in loss of antigen staining. The user must validate any such changes. Differences in tissue processing and technical procedures in the laboratory may produce significant variability in results and require regular use of controls (see Quality Control Procedures section).

Storage and Handling

Store at 2-8° C. Do not freeze. The user must validate any storage conditions other than those specified in the package insert.

To ensure proper reagent delivery and stability of the antibody after every run, the cap must be replaced and the dispenser must be immediately placed in the refrigerator in an upright position.

Every antibody dispenser expiration dated. When properly stored, the reagent is stable to the date indicated on the label. Do not use reagent beyond the expiration date for the prescribed storage method.

There are no definitive signs to indicate instability of this product; therefore, positive and negative controls should be run simultaneously with unknown specimens. Your local Ventana office should be contacted immediately if there is an indication of reagent instability.

Materials and Reagents Needed But Not Provided

The following reagents and materials may be required for staining but are not provided with the Primary Antibody:

1. Ventana CONFIRM™ Negative Control Rabbit Ig or Rabbit Negative Control
2. Microscope slides, positively charged
3. Positive and negative tissue controls
4. Drying oven capable of maintaining a temperature of 70° C ± 5° C
5. Barcode labels (appropriate for negative control and primary antibody being tested)
6. 10% neutral buffered formalin
7. Staining jars or baths
8. Timer
9. Xylene
10. Ethanol or reagent alcohol
11. Deionized or distilled water
12. Staining dishes
13. NexES® IHC or BenchMark® Series automated slide stainers
14. Ventana *ultraView*™ Universal DAB, *ultraView*™ Universal Red, *VIEW*™ DAB, AEC, Enhanced Alkaline Phosphatase Red detection kits
15. Ventana Amplification Kit*
16. Ventana Endogenous Biotin Blocking Kit*
17. Ventana APK Wash (10X) (NexES IHC automated slide stainers)
18. Ventana Liquid Coverslip™ (Low Temperature) (NexES IHC automated slide stainers)
19. Ventana EZ Prep™ (10X) (BenchMark Series automated slide stainers)
20. Ventana Reaction Buffer (10X) (BenchMark Series automated slide stainers)
21. Ventana Liquid Coverslip (High Temperature) (BenchMark Series automated slide stainers)
22. Ventana Protease 1
23. Ventana Protease 2*
24. Ventana Protease 3*
25. Ventana Hematoxylin* or Hematoxylin II counterstain
26. Ventana Bluing Reagent
27. Mounting medium
28. Cover glass
29. Light microscope (20-80X)

* Optional

WARNINGS AND PRECAUTIONS

- For in vitro diagnostic use.
- Take reasonable precautions when handling reagents. Use disposable gloves when handling suspected carcinogens or toxic materials (example: xylene or formaldehyde).
- Avoid contact of reagents with eyes and mucous membranes. If reagents come in contact with sensitive areas, wash with copious amounts of water.
- Patient specimens and all materials contacting them should be handled as biohazardous materials and disposed of with proper precautions. Never pipette by mouth.
- Avoid microbial contamination of reagents, as this could produce incorrect results.
- Consult local or state authorities with regard to recommended method of disposal.
- The preservative in the reagent is ProClin 300. Symptoms of overexposure to ProClin 300 include skin and eye irritation and irritation of mucous membranes and upper respiratory tract. The concentration of ProClin 300 in this product is less than or equal to 0.1% and does not meet the OSHA criteria for a hazardous substance. Systemic allergic reactions are possible in sensitive individuals.

SPECIMEN COLLECTION AND PREPARATION FOR ANALYSIS

Routinely processed, formalin fixed, paraffin embedded tissues are suitable for use with this primary antibody when used with Ventana detection kits and a Ventana automated slide stainer (see Materials and Reagents Needed, But Not Provided section). The recommended tissue fixative is 10% neutral buffered formalin.⁵ Variable results may occur as a result of prolonged fixation or special processes, such as decalcification of bone marrow preparations.

Each section should be cut to the appropriate thickness and placed on a positively charged glass slide. Slides containing the tissue section may be baked for at least 2 hours (but not longer than 24 hours) in a 70° C ± 5° C oven. Slides should be stained immediately, as antigenicity of cut tissue sections may diminish over time.

INSTRUCTIONS FOR USE

Step by Step Procedures

Manual Deparaffinization Procedure

Required when using the NexES IHC automated slide stainer or if deparaffinization is not selected on the BenchMark Series automated slide stainer:

For instructions on when to label slides with barcode label, refer to the Instructions for Use section of the specific automated slide stainer Operator's Manual.

- Immerse the slides sequentially in 3 xylene baths for 5 ± 1 minutes each.
- Transfer the slides to 100% ethanol and immerse sequentially in 2 baths for 3 ± 1 minutes each.
- Transfer the slides to 95% ethanol and immerse them in a bath of this solution for 3 ± 1 minutes.
- Transfer the slides to 80% ethanol and immerse them in this solution for 3 ± 1 minutes.
- Transfer the slides to a bath of deionized or distilled water and dip a minimum of 10 times.
- Transfer slides to APK Wash (1X) or buffer solution as appropriate. For APK Wash, the slides should remain until you are ready to perform the staining run. For buffer solution, the slides should remain until you are ready to perform the antigen unmasking procedure. Do not allow the slides to dry.

Slides stained on the BenchMark Series automated slide stainers can be deparaffinized on the instrument. If this option is selected, apply barcode labels to slides and place slides on the instrument. If the option is not selected, follow the Manual Deparaffinization Procedure above.

Recommended Staining Protocols

Ventana primary antibodies have been developed for use on a Ventana automated slide stainer in combination with Ventana detection kits and accessories. Recommended staining protocols for the automated slide stainers are listed below in Table 1. The parameters for the automated procedures can be displayed, printed and edited according to the procedure in the Operator's Manual. Other operating parameters for the automated slide stainers have been preset at the factory.

Table 1. Recommended Staining Protocols for CONFIRM anti-Lambda Rabbit Polyclonal Primary Antibody using *VIEW* DAB and *ultraView* Universal DAB detection kits

Procedure Type	Platform or Method	
	NexES IHC	BenchMark Series
Deparaffinization	Off Line	Selected
Cell Conditioning (Antigen Unmasking)	None required	None required
Enzyme (Protease)*	Protease 1, 4 minutes	Protease 1, 4 minutes
Antibody (Primary)*	Approximately 32 minutes, 37° C	Approximately 16 minutes, 37° C
A/B Block (Biotin Blocking)	Optional	Optional
Amplify (Amplification)	Optional	Optional
Counterstain (Hematoxylin)	Hematoxylin II, 2 to 4 minutes	Hematoxylin II, 2 to 4 minutes
Post Counterstain	Bluing, 2 to 4 minutes	Bluing, 2 to 4 minutes

*Antibody and protease incubation times and protease types may be adjusted to optimize staining.

The procedures for staining on the Ventana automated slide stainers are as follows. For more detailed instructions and additional protocol options, refer to your Operator's Manual.

Antigen Unmasking Not Required:

- Apply barcode labels to the slide. Slides are to be deparaffinized through a series of xylene and gradient alcohols to water and then to APK Wash (1X).
- Load the primary antibody, appropriate detection kit dispensers and required accessory reagents onto the reagent tray and place the reagent tray on the automated slide stainer. Check bulk fluids and waste.
- Load the deparaffinized, labeled slides from the APK Wash (1X). Avoid tissue drying.

BenchMark Series Automated Slide Stainers

- Apply slide barcode label that corresponds to the antibody protocol to be performed.
- Load the primary antibody, appropriate detection kit dispensers and required accessory reagents onto the reagent tray and place the reagent tray on the automated slide stainer. Check bulk fluids and waste.
- Load the slides onto the automated slide stainer.

For All Instruments

- Start the staining run.
- At the completion of the run, remove the slides from the automated slide stainer.
- For DAB and Alkaline Phosphatase Red chromogens, wash in a mild dishwashing detergent or alcohol to remove the coverslip solution; dehydrate, clear, and coverslip with permanent mounting media in the usual manner.
- For AEC chromogen, do not dehydrate and clear. Mount AEC with aqueous mounting medium. The stained slides should be read within 2 to 3 days of staining, and are stable for at least 2 years if properly stored at room temperature (15° - 25° C).

QUALITY CONTROL PROCEDURES

Positive Tissue Control

A positive tissue control must be run with every staining procedure performed. An example of a positive control for CONFIRM anti-Lambda Rabbit Polyclonal Primary Antibody is tonsil, lymph node, or spleen. The positive staining tissue components (B cells or plasma cells) are used to confirm that the antibody was applied and the instrument functioned properly. This tissue may contain both positive and negative staining cells or tissue components and may serve as both the positive and negative control tissue. Control tissues should be fresh autopsy, biopsy or surgical specimens prepared or fixed as soon as possible in a manner identical to the test sections. Such tissues may monitor all steps of the procedure, from tissue preparation through staining. Use of a tissue section fixed or processed differently from the test specimen will provide control for all reagents and method steps except fixation and tissue processing.

A tissue with weak positive staining is more suitable for optimal quality control and for detecting minor levels of reagent degradation.

Known positive tissue controls should be utilized only for monitoring the correct performance of processed tissues and test reagents, and not as an aid in determining a specific diagnosis of patient samples. If the positive tissue controls fail to demonstrate positive staining, results with the test specimens should be considered invalid.

Negative Tissue Control

The same tissue used for the positive tissue control may be used as the negative tissue control. The variety of cell types present in most tissue sections offers internal negative control sites, but this must be verified by the user. The components that do not stain should demonstrate the absence of specific staining, and provide an indication of non specific background staining. If specific staining occurs in the negative tissue control sites, results with the patient specimens should be considered invalid.

Unexplained Discrepancies

Unexplained discrepancies in controls should be referred to your local Ventana office immediately. If quality control results do not meet specifications, patient results are invalid. If discrepancies occur, refer to the Troubleshooting section of this insert. Identify and correct the problem, then repeat the patient samples.

Negative Reagent Control

A negative reagent control must be run for every specimen to aid in the interpretation of results. A negative reagent control is used in place of the primary antibody to evaluate nonspecific staining. The slide should be stained with Negative Control Mouse Ig, CONFIRM Negative Control Rabbit Ig, or Rabbit Negative Control, as appropriate. If an alternative negative reagent control is used, dilute to the same concentration as the primary antibody antiserum with Ventana Antibody Diluent. The diluent alone may be used as an alternative to the previously described negative reagent controls. The incubation period for the negative reagent control should equal the primary antibody incubation period.

When panels of several antibodies are used on serial sections, a negative reagent control on one slide may serve as a negative or nonspecific binding background control for other antibodies.

Assay Verification

Prior to initial use of an antibody or staining system in a diagnostic procedure, the specificity of the antibody should be verified by testing it on a series of tissues with known immunohistochemistry performance characteristics representing known positive and negative tissues (refer to the Quality Control Procedures previously outlined in this section of the product insert and to the Quality Control recommendations of the College of American Pathologists Laboratory Accreditation Program, Anatomic Pathology Checklist⁶, or the CLSI Approved Guideline⁷ or both documents). These quality control procedures should be repeated for each new antibody lot, or whenever there is a change in assay parameters. Tissues listed in the Summary of Expected Results section of this insert are suitable for assay verification.

INTERPRETATION OF RESULTS

The Ventana automated immunostaining procedure causes a colored reaction product to precipitate at the antigen sites localized by the primary antibody. Refer to the appropriate detection kit package insert for expected color reactions. A qualified pathologist experienced in immunohistochemistry procedures must evaluate positive and negative controls before interpreting results.

Positive Tissue Control

The stained positive tissue control should be examined first to ascertain that all reagents are functioning properly. The presence of an appropriately colored reaction product within the target cells is indicative of positive reactivity. Refer to the package insert of the detection kit used for expected color reactions. Depending on the incubation time and potency of the hematoxylin used, counterstaining will result in a pale to dark blue coloration of cell nuclei. Excessive or incomplete counterstaining may compromise proper interpretation of results.

If the positive tissue control fails to demonstrate positive staining, any results with the test specimens should be considered invalid.

Negative Tissue Control

The negative tissue control should be examined after the positive tissue control to verify the specific labeling of the target antigen by the primary antibody. The absence of specific staining in the negative tissue control confirms the lack of antibody cross reactivity to cells or cellular components. If specific staining occurs in the negative tissue control, results with the patient specimen should be considered invalid.

Nonspecific staining, if present, will have a diffuse appearance. Sporadic light staining of connective tissue may also be observed in tissue sections that are excessively formalin-fixed. Intact cells should be used for interpretation of staining results, as necrotic or degenerated cells often stain nonspecifically.

Patient Tissue

Patient specimens should be examined last. Positive staining intensity should be assessed within the context of any background staining of the negative reagent control. As with any immunohistochemical test, a negative result means that the antigen in question was not detected, not that the antigen is absent in the cells or tissue assayed. If necessary, use a panel of antibodies to aid in the identification of false negative reactions (see Summary of Expected Results section). The morphology of each tissue sample should also be examined utilizing a hematoxylin and eosin stained section when interpreting any immunohistochemical result. The patient's morphologic findings and pertinent clinical data must be interpreted by a qualified pathologist.

LIMITATIONS

General Limitations

1. Immunohistochemistry is a multiple step diagnostic process that requires specialized training in the selection of the appropriate reagents and tissues, fixation, processing, preparation of the immunohistochemistry slide, and interpretation of the staining results.
2. Tissue staining is dependent on the handling and processing of the tissue prior to staining. Improper fixation, freezing, thawing, washing, drying, heating, sectioning, or contamination with other tissues or fluids may produce artifacts, antibody trapping, or false negative results. Inconsistent results may be a consequence of variations in fixation and embedding methods, or inherent irregularities within the tissue.
3. Excessive or incomplete counterstaining may compromise proper interpretation of results.
4. The clinical interpretation of any positive staining, or its absence, must be evaluated within the context of clinical history, morphology and other histopathological criteria. The clinical interpretation of any staining, or its absence, must be complemented by morphological studies and proper controls as well as other diagnostic tests. This antibody is intended to be used in a panel of antibodies. It is the responsibility of a qualified pathologist to be familiar with the antibodies, reagents and methods used to produce the stained preparation. Staining must be performed in a certified, licensed laboratory under the supervision of a pathologist who is responsible for reviewing the stained slides and assuring the adequacy of positive and negative controls.
5. Ventana provides antibodies and reagents at optimal dilution for use when the provided instructions are followed. Further dilution may result in loss of antigen staining; the user must validate any such change. Any deviation from recommended test procedures may invalidate expected results. Appropriate controls must be employed and documented. Users who deviate from recommended test procedures must accept responsibility for interpretation of patient results.
6. This product is not intended for use in flow cytometry; performance characteristics have not been determined.
7. Reagents may demonstrate unexpected reactions in previously untested tissues. The possibility of unexpected reactions even in tested tissue groups cannot be completely eliminated because of biological variability of antigen expression in neoplasms, or other pathological tissues.⁸ Contact your local Ventana office with documented unexpected reactions.
8. Tissues from persons infected with hepatitis B virus and containing hepatitis B surface antigen (HBsAg) may exhibit nonspecific staining with horseradish peroxidase.⁹
9. When used in blocking steps, normal sera from the same animal source as the secondary antisera may cause false negative or false positive results due to autoantibodies or natural antibodies.
10. False positive results may be seen because of nonimmunological binding of proteins or substrate reaction products. They may also be caused by pseudoperoxidase activity (erythrocytes), endogenous peroxidase activity (cytochrome C), alkaline phosphatase, or endogenous biotin (example: liver, brain, breast, kidney) depending on the type of immunostain used.¹⁰
11. As with any immunohistochemistry test, a negative result means that the antigen was not detected, not that the antigen was absent in the cells or tissue assayed.
12. Due to the prevalence of Ig recognized by this polyclonal reagent, interstitial and serum staining of tissue is to be expected.

Specific Limitations

1. The antibody has been optimized for a 16 and 32 minute incubation time in combination with Ventana detection kits and the Ventana automated slide stainers. Incubation times and temperatures other than those specified may give erroneous results. The user must validate any such change. However, because of variation in tissue fixation and processing, it may be necessary to increase or decrease the primary antibody incubation time on individual specimens. For further information on fixation variables, refer to "Immunohistochemistry Principles and Advances".¹¹
2. The antibody, in combination with Ventana detection kits and accessories, detects antigen that survives routine formalin fixation, tissue processing and sectioning. Users who deviate from recommended test procedures are responsible for interpretation and validation of patient results.
3. Morphology may be compromised when staining tissue fixed with Prefer fixative.

PERFORMANCE CHARACTERISTICS

1. Testing reported in this section was conducted using the recommended protocol for MIEW DAB Detection Kit.
2. Specificity of CONFIRM anti-Lambda Rabbit Polyclonal Primary Antibody was determined by testing the following tissue types: 3 each of cerebrum, cerebellum, adrenal gland, ovary, pancreas, parathyroid gland, hypophysis, testis, thyroid, breast, spleen, thymus gland, lung, heart, esophagus, stomach, small intestine, colon, liver, salivary gland, kidney, and prostate. In addition, 11 bone marrow, 18 lymph node, and 9 tonsil were stained. Staining results with CONFIRM anti-Lambda Rabbit Polyclonal yielded interstitial and serum staining in addition to staining of the following specific cellular components: immunoglobulin (B cells), dendritic reticulum, immunoblasts, and plasma cells.
3. Sensitivity is dependent upon the preservation of the antigen. Any improper tissue handling during fixation, sectioning, embedding or storage which alters antigenicity weakens Lambda detection by CONFIRM anti-Lambda Rabbit Polyclonal Primary Antibody and may generate false negative results. CONFIRM anti-Lambda Rabbit Polyclonal stained 0 out of 4 lymphoma tissues.
4. Intra run reproducibility was determined by staining 3 slides containing the same tissue on 1 instrument. The purpose of intra run reproducibility testing is to ensure all slides stained on 1 automated slide stainer perform similarly. The testing performed on a NexES IHC automated slide stainer yielded slides that stained similarly. The testing performed on a Benchmark automated slide stainer yielded slides that stained similarly. The testing performed on a Benchmark XT/LT automated slide stainer yielded slides that stained similarly. Users should verify within run reproducibility results by staining several sets of serial sections with low, medium and high antigen density in a single run.
5. Inter run reproducibility was determined by staining 27 slides containing the same tissue across 3 days (1 run per day) on the same automated slide stainer for each staining platform. The purpose of inter run reproducibility testing is to ensure that slide staining is consistent when run repeatedly on 1 automated slide stainer. All slides exhibited comparable staining when run on a NexES IHC automated slide stainer. All slides performed similarly when run on a Benchmark automated slide stainer. All slides performed similarly when run on a Benchmark XT/LT automated slide stainer. Users should verify between run reproducibility results by staining several sets of serial sections with low, medium and high antigen density on different days.
6. Inter platform reproducibility was determined by staining 9 slides containing the same tissue on 1 automated slide stainer of each stainer platform. The purpose of inter platform reproducibility is to ensure that slide staining is consistent between staining platforms (NexES IHC, Benchmark, and Benchmark XT/LT). Slides for this product exhibited comparable staining across all Ventana staining platforms.
7. Inter lot reproducibility was determined by staining 3 slides containing 1 tissue sample that contained 5 specific cellular components with 3 different lots of CONFIRM anti-Lambda Rabbit Polyclonal. The purpose of inter lot reproducibility is to ensure that each lot exhibits comparable sensitivity and specificity when applied to identical tissue samples. All 3 lots performed similarly when tested over 1 tissue that contained 5 specific cellular components: T cells, immunoglobulin (B cells), dendritic reticulum, immunoblasts, and plasma cells.

TROUBLESHOOTING

1. If the positive control exhibits weaker staining than expected, other positive controls run concurrently should be checked to determine if it is due to the primary antibody or one of the common secondary reagents.
2. If the positive control is negative, it should be checked to ensure that the slide has the proper barcode label. If the slide is labeled properly, other positive controls run concurrently should be checked to determine if it is due to the primary antibody or one of the common secondary reagents. Tissues may have been improperly

collected, fixed or deparaffinized. The proper procedure should be followed for collection, storage and fixation.

3. When using a biotin based detection kit, if excessive background staining occurs, high levels of endogenous biotin may be present. A biotin blocking step may be included.
4. If all of the paraffin has not been removed, the deparaffinization procedure should be repeated.
5. If specific antibody staining is too intense, the run should be repeated with the primary antibody incubation time shortened by 4 minute intervals until the desired stain intensity is achieved.
6. If tissue sections wash off the slide, slides should be checked to ensure that they are positively charged.
7. For corrective action, refer to the Step By Step Procedure section of the automated slide stainer Operator's Manual or contact your local Ventana office.

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