

## VENTANA Antibody Diluent with Casein

**REF**

760-219

06440002001

**IVD**

### INTENDED USE

VENTANA Antibody Diluent with Casein is a buffered, proteinaceous solution containing salt and immunoglobulins used to dilute rabbit and mouse primary antibodies for use on the BenchMark, BenchMark GX, BenchMark XT, and BenchMark ULTRA automated staining platforms.

This product is intended for *in vitro* diagnostic use.

### PRINCIPLE OF THE PROCEDURE

VENTANA Antibody Diluent with Casein is used to dilute primary antibodies for immunohistochemical (IHC) testing on VENTANA BenchMark, BenchMark GX, BenchMark XT, and BenchMark ULTRA automated staining platforms.

### MATERIALS AND METHODS

#### Reagent Provided

One 100 mL bottle of VENTANA Antibody Diluent with Casein contains a 100 mM phosphate buffer with <20 mM proteins (casein and goat globulins), <50 mM salt, <15 mM EDTA, brij detergent and 0.05% ProClin 300, a preservative.

#### Reconstitution, Mixing, Dilution, Titration

No reconstitution, mixing, dilution, or titration is required.

#### Materials Required But Not Provided

Reagents, such as VENTANA primary antibodies, probes, detection kits, and ancillary components, are not provided.

#### Storage and Handling

Store at 2-8°C. Do not freeze.

VENTANA Antibody Diluent with Casein must be returned to intended storage conditions immediately after use. Every reagent container is 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.

The signs indicating contamination or instability of this product are turbidity of the solution, odor development, or precipitation of the solution. At the first sign of possible reagent instability, contact your local support representative.

### WARNINGS AND PRECAUTIONS

1. Take reasonable precautions when handling reagents. Avoid contact of reagents with eyes, skin, and mucous membranes. Use protective clothing and gloves.
2. ProClin 300 is used as a preservative in this solution. It is classified as an irritant and may cause sensitization through skin contact. Take reasonable precautions when handling. Avoid contact of reagents with eyes, skin, and mucous membranes. Use protective clothing and gloves.
3. Avoid microbial contamination of product, as this could produce incorrect results.
4. Consult local or state authorities with regard to recommended method of disposal.
5. For supplementary safety information, refer to the product Safety Data Sheet and the Symbol and Risk Phrase Guide located at [www.ventana.com](http://www.ventana.com).

### INSTRUCTIONS FOR USE

Refer to the appropriate antibody package insert for the recommended staining protocol and to the instrument Operator's Manual for detailed instructions and additional protocol options.

Ventana recommends referring to the package insert of the primary antibody that is to be diluted with VENTANA Antibody Diluent with Casein for detailed instruction regarding dilution and antibody performance.

### PERFORMANCE CHARACTERISTICS

VENTANA Antibody Diluent with Casein was tested with VENTANA antibodies detected with *ultraView* Universal DAB Detection Kit and *MIEW* DAB Detection Kit on various tissue types on VENTANA BenchMark, BenchMark GX, BenchMark XT, and BenchMark ULTRA automated staining platforms.

Inter- and intra-run reproducibility of staining was determined by evaluating antibodies diluted with VENTANA Antibody Diluent with Casein. The tissue samples read by a qualified reader were found acceptable for staining appropriateness and quality of morphological and cellular staining.

### TROUBLESHOOTING

1. If the positive control exhibits weaker staining than expected, other positive controls run during the same instrument run should be checked to determine if it is because of 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 bar code label. If the slide is labeled properly, other positive controls run on the same instrument run should be checked to determine if it is because of 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. If excessive background staining occurs, high levels of endogenous biotin may be present. A biotin blocking step should be included in the staining protocol.
4. If all of the paraffin has not been removed, staining may be affected. Repeat the deparaffinization procedure.
5. If specific antibody staining is too intense, repeat the staining run and shorten the incubation time 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 automated slide stainer Operator's Manual or contact your local support representative.

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