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EN Rev. 2.2
KEY-CODE CMC22911022

Calcitonin (polyclonal)

For In Vitro Diagnostic Use (IVD)
English: Instructions For Use

Presentation
Anti-Calcitonin is a rabbit polyclonal antibody purified from rabbit anti-sera diluted in tris buffered saline, pH 7.3-7.7, with protein base, and preserved with sodium azide.

Applications
Immunohistochemical staining with anti-calcitonin antibody has proven to be an effective way of demonstrating calcitonin-producing cells in the thyroid. C-cell hyperplasia and medullary thyroid carcinomas stain positive for calcitonin. Studies of calcitonin have resulted in the identification of a wide spectrum of C-cell proliferative abnormalities.

Reactivity	Paraffin, frozen
Control	Medullary carcinoma of thyroid
Visualization	Cytoplasmic
Stability	Up to 36 months; store at 2-8°C

The immunoglobulin concentration of the reagent appears on the product label.

Antibody color does not affect performance

Description	Cat. No.	Dilution/Comments
0.1 ml, concentrate	229A-14	1:100 - 1:500*
0.5 ml, concentrate	229A-15	1:100 - 1:500*
1 ml, concentrate	229A-16	1:100 - 1:500*
1 ml, prediluted	229A-17	Ready to use
7 ml, prediluted	229A-18	Ready to use
Positive control slides	229S	5 slides/pack

P prediluted
C concentrate

Preparation and Pretreatment
1. Cut 3-4 µm section of formalin-fixed paraffin-embedded tissue and place on positively charged slides; dry overnight at 58°C.
2. Deparaffinize, rehydrate, and epitope retrieve; the preferred method is the use of Heat Induced Epitope Retrieval (HIER) techniques using Cell Marque's Trilogy™ in conjunction with a pressure cooker. The preferred method allows for simultaneous deparaffinization, rehydration, and epitope retrieval. Upon completion, rinse with 5 changes of distilled or deionized water.
3. If using HRP detection system, place slides in peroxide block for 10 minutes; rinse. If using AP detection system, omit this step.

Recommended Protocol for Staining at Room Temperature Using CytoScan™ BSA Detection System
1. Apply the antibody and incubate for 30 - 60 minutes; rinse.
2. Apply the link and incubate for 10 minutes; rinse.
3. Apply the label and incubate for 10 minutes; rinse.
4. Apply ample amount of chromogen and incubate for 1 - 10 minutes; rinse.
5. Dehydrate and coverslip.

Recommended Protocol for Staining at Room Temperature Using PolyScan™ Polymer Detection System
1. Apply the antibody and incubate for 30 - 60 minutes; rinse.
2. Apply the PolyScan™ Polymer Rabbit/Mouse Detection System for 30 minutes; rinse.
3. Apply ample amount of chromogen and incubate for 1 - 10 minutes; rinse.
4. Dehydrate and coverslip.

References
1. Copp, DH, et al., Endocrinology 1962;70:638-649
2. Kameda, Y et al., Cell Tissue Res 1980;206:403-415
3. Coombes, RC et al., Lancet 1974;1:1080-1083
4. Dayal Y, et al., Cancer 1979; 43:1331-13385. DeLellis, RA et al., Am J Clin Pathol 1978;7(4):587-29

*The dilutions set forth above are estimates; actual results may differ because of variability in methods and protocols. Validation of antibody performance/protocol is the responsibility of the end user.

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CE *Material Safety Data Sheet available upon request.*