

Calcitonin Monoclonal Antibody (4-5)

Catalog NumberMA3-021A

Product data sheet

| Details | | Species Reactivity | |
|--------------------|----------------------------------|--|----------|
| Size | 100 µg | Species reactivity | Fish |
| Host/Isotope | Mouse / IgG1 | Tested Applications | |
| Class | Monoclonal | Dilution * | |
| Type | Antibody | ELISA (ELISA) | 20 µg/mL |
| Clone | 4-5 | * Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls. | |
| Immunogen | Salmon calcitonin. | | |
| Conjugate | Unconjugated | | |
| Form | Lyophilized | | |
| Storage Conditions | -20° C, Avoid Freeze/Thaw Cycles | | |

Product specific information

MA3-021A detects calcitonin (CT) from salmon tissues. This antibody cross reacts with glycine-extended salmon calcitonin, but is unreactive with salmon calcitonin peptides 23-30 and 26-32. It shows no cross reactivity with human calcitonin. MA3-021A has been successfully used in ELISA procedures. By ELISA this antibody is useful in solid-phase or competitive solution based procedures with a sensitivity of approximately 50 ng/mL. The MA3-021A antigen is salmon calcitonin. This antibody was raised against salmon calcitonin which, as in the naturally occurring peptide, contains a C-terminal prolinamide. The epitope recognized likely lies in the N-terminal portion of the molecule. Reconstitute with PBS.

Background/Target Information

Calcitonin is a 32 amino acid peptide which can be demonstrated in C cells of the normal and hyperplastic thyroid. Staining for calcitonin may be used for the identification of a spectrum of C cell proliferative abnormalities ranging from C cell hyperplasia to invasive tumors. Staining for calcitonin in medullary carcinoma of the thyroid produces a fine granular pattern in the cytoplasm. Amyloid deposits within the tumor may also exhibit varying degrees of calcitonin activity.

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