

Product datasheet for **TA396810S**

CALCA Monoclonal Antibody [Clone ID: 4D12.D4.F3.E2.H7.E7]

Product data:

| | |
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| Product Type: | Primary Antibodies |
| Clone Name: | 4D12.D4.F3.E2.H7.E7 |
| Applications: | ELISA, WB |
| Recommended Dilution: | WB: 1:1,000 - 1:2,000 ELISA: User Optimized |
| Reactivity: | Human |
| Isotype: | IgG2a, kappa |
| Clonality: | Monoclonal |
| Immunogen: | Procalcitonin Antibody was produced in mice prepared by repeated immunizations with full-length recombinant human Procalcitonin protein. |
| Specificity: | Anti-Procalcitonin Antibody was purified from concentrated tissue culture supernate by Protein A chromatography. This antibody is specific for human Procalcitonin. Cross-reactivity with Procalcitonin from other sources has not been determined. |
| Formulation: | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| Concentration: | 1.0 mg/ml - lot specific |
| Conjugation: | Unconjugated |
| Storage: | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| Stability: | Expiration date is one (1) year from date of receipt. |
| Database Link: | P06881 |



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Background:

Anti-Procalcitonin antibody detects human Procalcitonin. Procalcitonin is a peptide hormone mainly produced by the C cells of the thyroid and certain endocrine cells of the lung. Under normal expression conditions, procalcitonin is immediately cleaved into three specific fragments, a N terminal residue, calcitonin and katacalcin. Levels of unprocessed procalcitonin rise significantly after bacterial infection, trauma or shock. This gene encodes the peptide hormones calcitonin, calcitonin gene-related peptide and katacalcin by tissue-specific alternative RNA splicing of the gene transcripts and cleavage of inactive precursor proteins. Calcitonin is involved in calcium regulation and acts to regulate phosphorus metabolism. Calcitonin gene-related peptide functions as a vasodilator while katacalcin is a calcium-lowering peptide. Multiple transcript variants encoding different isoforms have been found for this gene.

Synonyms:

mouse anti-procalcitonin antibody, calcitonin isoform CT preproprotein, calcitonin-related polypeptide alpha, CT, KC, CGRP, CALC1, CGRP1, CGRP-I

Note:

Anti-Procalcitonin [4D12.D4] antibody was tested by ELISA and Western Blot. Specific conditions for reactivity should be optimized by the end user.

Product images:

Western Blot of Mouse Anti-Procalcitonin antibody. Lane 1: MW. Lane 2: Procalcitonin Protein. Load: 5 μ g per lane. Primary antibody: Procalcitonin antibody at NEAT overnight at 4°C. Secondary antibody: HRP Mouse IgG secondary antibody at 1:40,000 for 30 min at RT. Block: MB-070 overnight at 4°C. Predicted/Observed size: 13.9 kDa.



Western Blot of Mouse Anti-Procalcitonin antibody. Lane 1: MW. Lane 2: Procalcitonin Protein. Load: 5 μ g per lane. Primary antibody: Procalcitonin antibody at NEAT overnight at 4°C. Secondary antibody: HRP Mouse IgG secondary antibody at 1:40,000 for 30 min at RT. Block: MB-070 overnight at 4°C. Predicted/Observed size: 13.9 kDa.