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www.rockland.com
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+1 484.791.3823

Datasheet for 200-301-I48

Procalcitonin (4D12.D4.F3.E2.H7.E7) Antibody

Overview

Description:	Anti-Procalcitonin (MOUSE) Monoclonal Antibody - 200-301-I48
Item No.:	200-301-I48
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Mouse Balb/c

Product Details

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
Host Species:	Mouse Balb/c
Clonality:	Monoclonal
Clone ID:	4D12.D4.F3.E2.H7.E7
Format:	IgG2a

Target Details

Gene Name:	CALCA
Reactivity:	Human

Immunogen Type:	Recombinant Protein
Immunogen:	Procalcitonin Antibody was produced in mice prepared by repeated immunizations with full-length recombinant human Procalcitonin protein.
Purity/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.
Relevant Links:	• UniProtKB - P06881

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Procalcitonin [4D12.D4] antibody was tested by ELISA and Western Blot. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
WB:	1:1,000 - 1:2,000

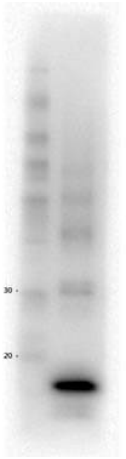
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of Mouse Anti-Procalcitonin antibody. Lane 1: MW. Lane 2: Procalcitonin Protein. Load: 5 µg 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.

Disclaimer

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