

Anti-Procalcitonin (4C8.H6.D4) Calca Monoclonal Antibody

Catalog Number: M02352

About CALCA

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.

Overview

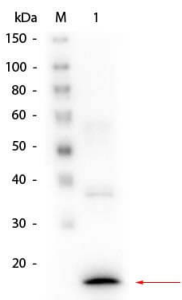
Product Name	Anti-Procalcitonin (4C8.H6.D4) Calca Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-Procalcitonin (4C8.H6.D4) Calca Monoclonal Antibody (Catalog # M02352). Tested in ELISA, WB applications. This antibody reacts with Human.
Application	ELISA, WB
Clonality	Monoclonal Clone: 4C8.H6.D4 IgG1 lambda
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	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 date is one (1) year from date of opening. (Ship on dry ice.)
Host	Mouse
Uniprot ID	P06881

Technical Details

Immunogen	Procalcitonin Antibody was produced in mice prepared by repeated immunizations with full-length recombinant human Procalcitonin protein.
Predicted Reactive Species	Chimpanzee, Macaque
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG1 lambda

Form	Liquid (sterile filtered)
Concentration	1.0 mg/ml by UV absorbance at 280 nm
Purification	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.
Suggested Dilutions	ELISA: User optimized WB: 1:1,000 - 1:2,000 Anti-Procalcitonin [4C8.H6.D4] antibody was tested by ELISA and Western Blot. Specific conditions for reactivity should be optimized by the end user.

Anti-Procalcitonin (4C8.H6.D4) Calca Monoclonal Antibody (M02352) Images



Western Blot of Mouse anti-Procalcitonin Antibody. Lane 1: rProcalcitonin. Load: 50 ng. Primary antibody: Mouse anti-Procalcitonin at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase mouse secondary antibody at 1:40,000 for 30 min at RT. Block: 30 min at RT. Predicted/Observed size: 13.9 kDa, 13.9 kDa

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