10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-CMA1 Picoband Antibody

Catalog # ABO11774

Specification

Anti-CMA1 Picoband Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	P23946
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Chymase(CMA1) detection. Tested with WB, IHC-P in Human.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-CMA1 Picoband Antibody - Additional Information

Gene ID 1215

Other Names
Chymase, 3.4.21.39, Alpha-chymase, Mast cell protease I, CMA1, CYH, CYM

Calculated MW
27325 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization
Secreted. Cytoplasmic granule. Mast cell granules.

Tissue Specificity
Mast cells in lung, heart, skin and placenta. Expressed in both normal skin and in urticaria pigmentosa lesions. .

Protein Name
Chymase

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
E.coli-derived human CMA1 recombinant protein (Position: I22-N247). Human CMA1 shares 75% and 74% amino acid (aa) sequences identity with mouse and rat CMA1, respectively.

Purification

Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Sequence Similarities
Belongs to the peptidase S1 family. Granzyme subfamily.

Anti-CMA1 Picoband Antibody - Protein Information

Name CMA1

Synonyms CYH, CYM

Function
Major secreted protease of mast cells with suspected roles in vasoactive peptide generation, extracellular matrix degradation, and regulation of gland secretion.

Cellular Location
Secreted. Cytoplasmic granule. Note=Mast cell granules

Tissue Location
Mast cells in lung, heart, skin and placenta. Expressed in both normal skin and in urticaria pigmentosa lesions

Anti-CMA1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-CMA1 Picoband Antibody - Images

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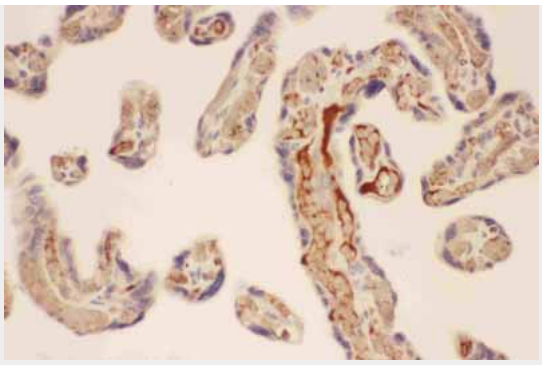
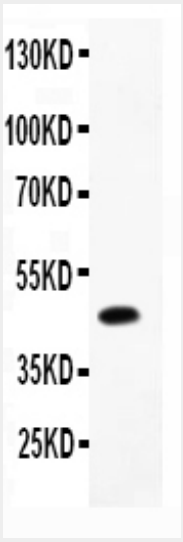


Anti-CMA1 Picoband antibody, ABO11774-1.JPGIHC(P): Human Placenta Tissue



Anti-CMA1 Picoband antibody, ABO11774-2.jpgAll lanes: Anti-CMA1(ABO11774) at 0.5ug/mlWB: Recombinant Human CMA1 Protein 0.5ngPredicted bind size: 47KDObserved bind size: 47KD

Anti-CMA1 Picoband Antibody - Background

Chymase is a major secreted protease of mast cells with suspected roles in vasoactive peptide generation, extracellular matrix degradation, and regulation of gland secretion. This gene product is a chymotryptic serine proteinase that belongs to the peptidase family S1. Chymase is mapped to 14q12. It is expressed in mast cells and thought to function in the degradation of the extracellular matrix, the regulation of submucosal gland secretion, and the generation of vasoactive peptides. In the heart and blood vessels, this protein, rather than angiotensin converting enzyme, is largely responsible for converting angiotensin I to the vasoactive peptide angiotensin II.