

Anti-CMA1 Picoband Antibody
Catalog # ABO11774

Specification

Anti-CMA1 Picoband Antibody - Product Information

Application	IHC, WB
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 Na₃.

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 reconstitution, 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

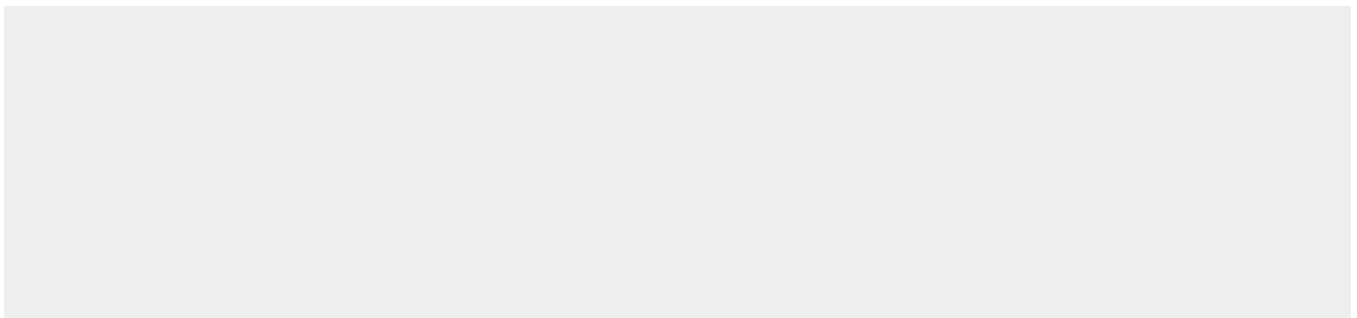
Tissue Location

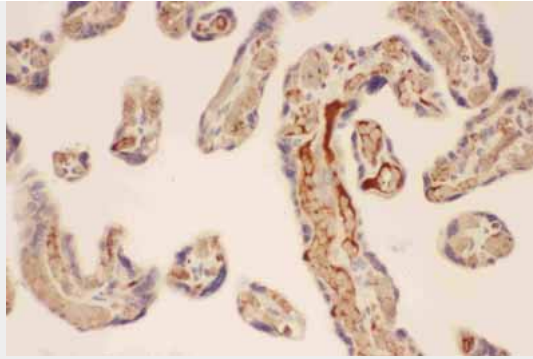
Mast cells in lung, heart, skin and placenta. Expressed in both normal skin and in urticaria pigmentosa lesions

Anti-CMA1 Picoband Antibody - Protocols

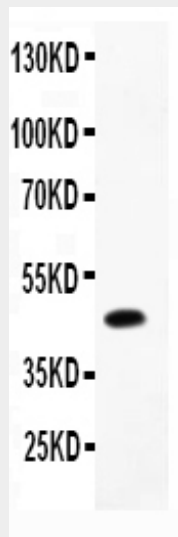
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-CMA1 Picoband Antibody - Images



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



Anti-CMA1 Picoband antibody, ABO11774-2.jpg All lanes: Anti-CMA1(ABO11774) at 0.5ug/ml WB:
Recombinant Human CMA1 Protein 0.5ng Predicted bind size: 47KD Observed 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.