

**Anti-CMA1 Picoband Antibody**  
Catalog # ABO11774

**Specification**

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**Anti-CMA1 Picoband Antibody - Product Information**

Application	<b>IHC, WB</b>
Primary Accession	<a href="#">P23946</a>
Host	<b>Rabbit</b>
Reactivity	<b>Human</b>
Clonality	<b>Polyclonal</b>
Format	<b>Lyophilized</b>

**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<br>Western blot, 0.1-0.5 µg/ml, Human<br>

**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 Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**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

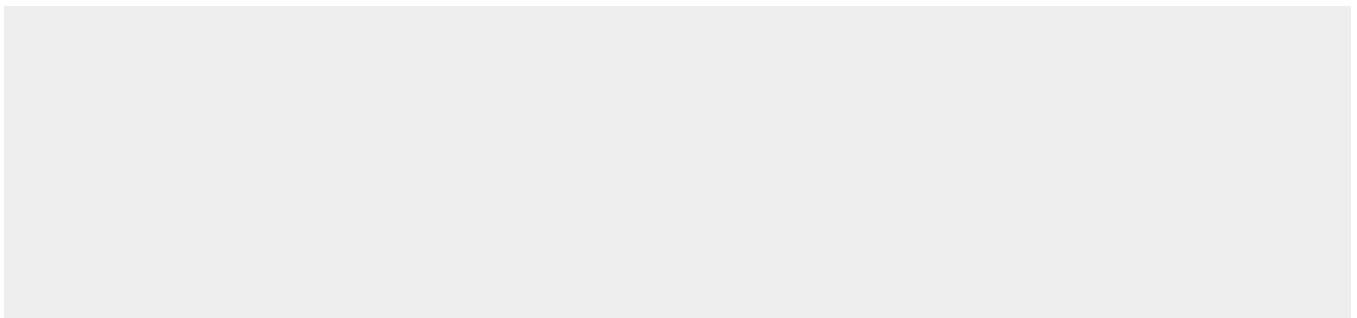
**Tissue Location**

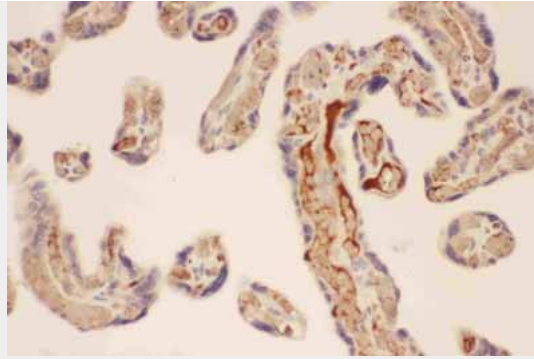
Mast cells in lung, heart, skin and placenta. Expressed in both normal skin and in urticaria pigmentosa lesions

**Anti-CMA1 Picoband Antibody - Protocols**

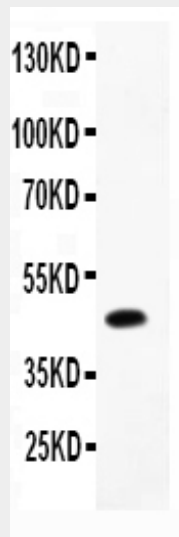
Provided below are standard protocols that you may find useful for product applications.

- [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.