

## Rabbit CMA1 Polyclonal Antibody | anti-CMA1 antibody

Anti-CMA1 Antibody

| CATALOG # | HOST   | REACTIVITY                                                 | APPLICATIONS                       |
|-----------|--------|------------------------------------------------------------|------------------------------------|
| AAA45675  | Rabbit | Reacts with Human. No cross reactivity with other proteins | Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

CMA1; Polyclonal Antibody; Anti-CMA1 Antibody; Chymase; chymase 1; mast cell; Alpha-chymase antibody; Chymase 1 antibody; Chymase 1 mast cell antibody; Chymase antibody; heart antibody; mast cell antibody; CMA1 antibody; CMA1\_HUMAN antibody; CYH antibody; CYM antibody; EC 3.4.21.39 antibody; Mast cell chymase 1 antibody; Mast cell protease 3 antibody; Mast cell protease 5 antibody; Mast cell protease I antibody; Mast cell protease III antibody; Mcp-5 antibody; MCP3P antibody; Mcpt5 antibody; MGC119890 antibody; MGC119891 antibody; MMCP-5 antibody; anti-CMA1 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                 |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                          |
| Reactivity                                     | Reacts with Human. No cross reactivity with other proteins                                                                                                                      |
| Clonality                                      | Polyclonal                                                                                                                                                                      |
| Isotype                                        | Rabbit IgG                                                                                                                                                                      |
| Purity/Purification                            | Immunogen affinity purified.                                                                                                                                                    |
| Form/Format                                    | Lyophilized                                                                                                                                                                     |
| Sequence Length                                | 247                                                                                                                                                                             |
| Applicable Applications for anti-CMA1 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                   |
| Immunogen                                      | E Coli-derived human CMA1 recombinant protein (Position: I22-N247). Human CMA1 shares 75% and 74% amino acid (aa) sequence identity with mouse and rat CMA1, respectively.      |
| Contents                                       | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .                                                                      |
| Reconstitution                                 | 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                |
| Preparation and 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. |

IMAGES



WB (Western Blot)

Western blot analysis of CMA1 using anti- CMA1 antibody (AAA45675).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human PC-3 whole cell lysates,Lane 2: human HepG2 whole cell lysates,Lane 3: rat liver tissue lysates,Lane 4: mouse HEPA1-6 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- CMA1 antigen affinity purified polyclonal antibody (Catalog # AAA45675) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CMA1 at approximately 35KD. The expected band size for CMA1 is at 27KD.



IHC (Immunohistochemistry)

Anti-CMA1 Picoband antibody, AAA45675IHC(P): Human Placenta Tissue

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CMA1 antibody | <p><b>Description:</b> Rabbit IgG polyclonal antibody for Chymase(CMA1) detection. Tested with WB, IHC-P in Human.</p> <p><b>Background:</b> 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.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                              |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 126825                                                                                                                                                       |
| NCBI GeneID                      | 1215                                                                                                                                                         |
| UniProt Accession #              | P23946; Q16018; Q3SY36; Q3SY37; Q9UDH5; B5BUM8                                                                                                               |
| NCBI Official Full Name          | Chymase                                                                                                                                                      |
| NCBI Official Synonym Full Names | chymase 1, mast cell                                                                                                                                         |
| NCBI Official Symbol             | CMA1                                                                                                                                                         |
| NCBI Official Synonym Symbols    | CYH; MCT1; chymase                                                                                                                                           |
| NCBI Protein Information         | chymase; alpha-chymase; chymase, heart; chymase, mast cell; mast cell protease I; chymase 1 preproprotein transcript E; chymase 1 preproprotein transcript I |
| UniProt Protein Name             | Chymase                                                                                                                                                      |
| UniProt Gene Name                | CMA1                                                                                                                                                         |
| UniProt Synonym Gene Names       | CYH; CYM                                                                                                                                                     |
| UniProt Entry Name               | CMA1_HUMAN                                                                                                                                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.