

For Research Use Only

# Mast Cell Chymase Polyclonal antibody

Catalog Number: 18189-1-AP

Featured Product

14 Publications



## Basic Information

### Catalog Number:

18189-1-AP

### Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 253 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG12909

### GenBank Accession Number:

BC069370

### GeneID (NCBI):

1215

### UNIPROT ID:

P23946

### Full Name:

chymase 1, mast cell

### Calculated MW:

247 aa, 27 kDa

### Observed MW:

27-30 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IP, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**Note-IHC:** suggested antigen retrieval with **TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** mouse heart tissue, human heart tissue, human placenta tissue, MCF-7 cells

**IP:** mouse heart tissue,

**IHC:** human tonsillitis tissue,

## Background Information

Mast Cell Chymase, also named as CYH, CYM and CMA1, belongs to the peptidase S1 family and Granzyme subfamily. It is the major secreted protease of mast cells with suspected roles in vasoactive peptide generation, extracellular matrix degradation, and regulation of gland secretion. CMA1 maybe a target for cardiovascular disease therapies.

## Notable Publications

Author	Pubmed ID	Journal	Application
Cheng Chen	33007290	Eur J Pharmacol	WB
Emily Mackey	32917815	Proc Natl Acad Sci U S A	WB
Qinglang Li	31493866	Biochem Biophys Res Commun	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

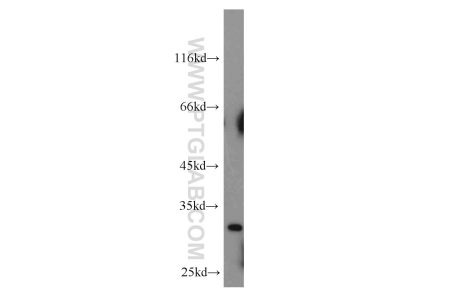
For technical support and original validation data for this product please contact:

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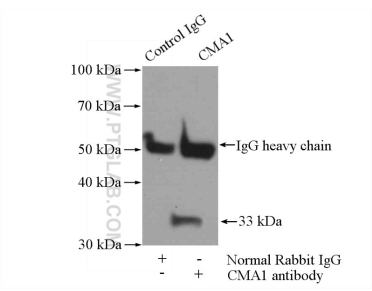
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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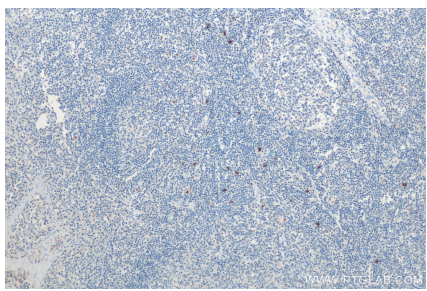
Selected Validation Data



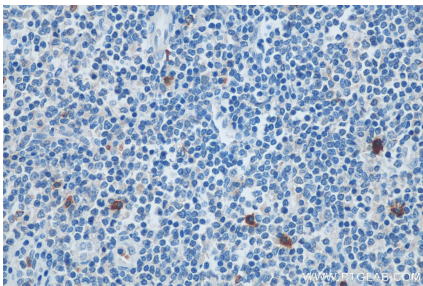
mouse heart tissue were subjected to SDS PAGE followed by western blot with 18189-1-AP (Mast Cell Chymase antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-Mast Cell Chymase (IP:18189-1-AP, 4ug; Detection:18189-1-AP 1:300) with mouse heart tissue lysate 2400ug.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 18189-1-AP (Mast Cell Chymase antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 18189-1-AP (Mast Cell Chymase antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).