

# Mast Cell Tryptase (TPSB2) Rabbit pAb

Catalog No.: A15887

## Basic Information

### Observed MW

30kDa

### Calculated MW

31kDa

### Category

Primary antibody

### Applications

ELISA, WB

### Cross-Reactivity

Human, Rat

## Background

Tryptases comprise a family of trypsin-like serine proteases, the peptidase family S1. Tryptases are enzymatically active only as heparin-stabilized tetramers, and they are resistant to all known endogenous proteinase inhibitors. Several tryptase genes are clustered on chromosome 16p13.3. These genes are characterized by several distinct features. They have a highly conserved 3' UTR and contain tandem repeat sequences at the 5' flank and 3' UTR which are thought to play a role in regulation of the mRNA stability. These genes have an intron immediately upstream of the initiator Met codon, which separates the site of transcription initiation from protein coding sequence. This feature is characteristic of tryptases but is unusual in other genes. The alleles of this gene exhibit an unusual amount of sequence variation, such that the alleles were once thought to represent two separate genes, beta II and beta III. Beta tryptases appear to be the main isoenzymes expressed in mast cells, whereas in basophils, alpha-tryptases predominate. Tryptases have been implicated as mediators in the pathogenesis of asthma and other allergic and inflammatory disorders.

## Recommended Dilutions

WB 1:500 - 1:2000

## Immunogen Information

### Gene ID

64499

### Swiss Prot

P20231

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-275 of human Mast Cell Tryptase (Mast Cell Tryptase (TPSB2)) (NP\_077078.5).

### Synonyms

TPS2; tryptaseB; tryptaseC; Mast Cell Tryptase (TPSB2)

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

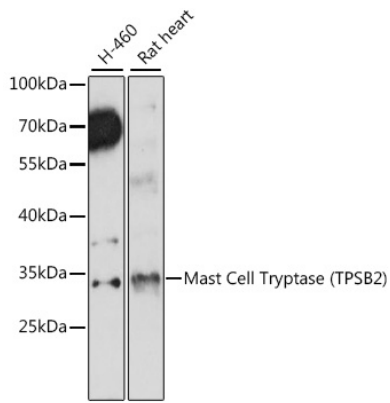
### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

## Validation Data

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Western blot analysis of various lysates using Mast Cell Trypsin (TPSB2) Rabbit pAb (A15887) at 1:1000 dilution.

Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 90s.