

## Product Datasheet

# Mast Cell Tryptase Antibody

Catalog No: CY5716

Reactivity: Human Mouse Rat

Isotype: Rabbit IgG

Applications: WB IHC IP



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### Information

**UniProt ID:** Q15661

**All Names:** TPS1; TPS2; TPSAB1; TPSB1; MCP 7 ; Mast cell protease 7; Tryptase alpha 1;

**Form:** Liquid

**Storage instructions:** Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

**Storage buffer:** pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

**Purity:** Affinity-chromatography

**Immunogen:** A synthesized peptide

**Molecular Wt.:** 30 kDa

### Application

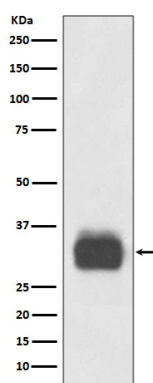
WB: 1:500~1:2000

IHC: 1:50~1:200

IP: 1:50

### 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, alpha and beta 1. 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.



Western blot analysis of Mast Cell Tryptase expression in Human tonsil lysate.

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