

Rabbit anti-Human Mast Cell Tryptase Polyclonal Antibody | anti-TPSAB1 antibody

Anti-Mast Cell Tryptase Antibody

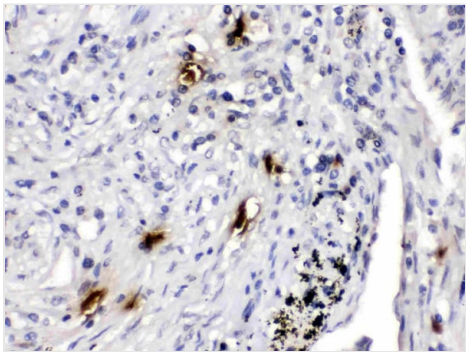
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA11674	Rabbit	Human	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

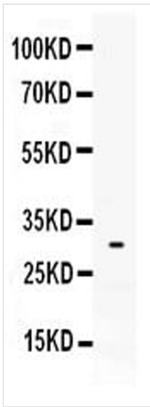
Mast Cell Tryptase; Polyclonal Antibody; Anti-Mast Cell Tryptase Antibody; alpha II; Lung tryptase; MCP 7; Pituitary tryptase; Skin tryptase; TPS 1; TPS1; TPS2; TPSAB1; TPSAB1 protein; TPSB1; Tryptase 1; Tryptase alpha 1; tryptase alpha I included; Tryptase alpha II; tryptase alpha II included; tryptase alpha included; tryptase alpha/beta 1; Tryptase beta 1; tryptase beta I included; Tryptase I; tryptase I included; Tryptase III; Tryptase skin; Q15661; Tryptase alpha/beta-1; anti-TPSAB1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized ; Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	275
Applicable Applications for anti-TPSAB1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Application Notes	Western Blot: Concentration: 0.1-0.5ug/ml; Tested Species: Human Immunohistochemisry Paraffin: Concentration: 0.5-1ug/ml; Tested Species: Human; Antigen Retrieval: By Heat ELISA: Concentration: 0.1-0.5ug/ml; Tested Species: Human Tested Species:In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested. Optimal dilutions should be determined by end users.
Immunogen	E Coli-derived human Mast Cell Tryptase recombinant protein (Position: H65-P275). Human Mast Cell Tryptase shares 77% and 76.1% amino acid (aa) sequence identity with mouse and rat Mast Cell Tryptase, respectively.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Relevant Detection Systems	Lab provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescent kit (Please inquire) in Western Blot (WB), supported by (catalog : please inquire) in IHC-P .
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.



IHC (Immunohistochemistry)
Mast Cell Tryptase was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- Mast Cell Tryptase Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)
Western blot analysis of Mast Cell Tryptase expression in 293T whole cell lysates (lane 1). Mast Cell Tryptase at 30KD was detected using rabbit anti- Mast Cell Tryptase Antigen Affinity purified polyclonal antibody at 0.5 ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-TPSAB1 antibody	Background: Tryptase alpha-1 and tryptase beta-1 are enzymes that in humans are encoded by the same TPSAB1 gene. 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. In addition, 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.
References	1. "Entrez Gene: TPSAB1 tryptase alpha/beta 1". 2. Miller JS, Moxley G, Schwartz LB (Oct 1990). "Cloning and characterization of a second complementary DNA for human tryptase". J Clin Invest 86 (3): 864-70. 3. Pallaoro M, Fejzo MS, Shayesteh L, Blount JL, Caughey GH (Feb 1999). "Characterization of genes encoding known and novel human mast cell tryptases on chromosome 16p13.3". J Biol Chem 274 (6): 3355-62.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13775595
NCBI GeneID	7177
NCBI Accession #	NP_003285.2
NCBI GenBank Nucleotide #	NM_003294.3
UniProt Accession #	Q15661; P15157; Q15663; Q6B052; Q9H2Y4; Q9H2Y5; Q9UQI1; D2E6R9; D2E6S1
NCBI Official Full Name	tryptase alpha/beta-1
NCBI Official Synonym Full Names	tryptase alpha/beta 1
NCBI Official Symbol	TPSAB1
NCBI Official Synonym Symbols	TPS1; TPS2; TPSB1
NCBI Protein Information	tryptase alpha/beta-1

UniProt Protein Name	Tryptase alpha/beta-1
UniProt Gene Name	TPSAB1
UniProt Synonym Gene Names	TPS1; TPS2; TPSB1; Tryptase-1
UniProt Entry Name	TRYB1_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mast-cell-tryptase-antibody-western-blot-immunohistochemistry-elisa/11674>