



Tryptase-3 Monoclonal Antibody

Catalog No	BYmab-10597
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	TPSD1
Protein Name	Tryptase-3
Immunogen	Synthesized peptide derived from Tryptase-3 at AA range: 51-100
Specificity	Tryptase-3 Monoclonal Antibody detects endogenous levels of Tryptase-3
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Tryptase delta (EC 3.4.21.59) (Delta-tryptase) (HmMCP-3-like tryptase III) (Mast cell mMCP-7-like) (Tryptase-3)
Observed Band	26kD
Cell Pathway	Secreted . Released from the secretory granules upon mast cell activation. .
Tissue Specificity	Expressed in colon, lung, heart and synovial tissue. May be specific to mast cells.
Function	catalytic activity:Preferential cleavage: Arg-I-Xaa, Lys-I-Xaa, but with more restricted specificity than trypsin.,caution:Although PubMed:11174199 reported this as a pseudogene, PubMed:12391231 showed it is expressed and has proteolytic activity when expressed in bacterial cells.,function:Tryptase is the major neutral protease present in mast cells and is secreted upon the coupled activation-degranulation response of this cell type.,similarity:Belongs to the peptidase S1 family. Tryptase subfamily.,similarity:Contains 1 peptidase S1 domain.,subcellular location:Released from the secretory granules upon mast cell activation.,subunit:Homotetramer.,tissue specificity:Expressed in colon, lung, heart and synovial tissue. May be specific to mast cells.,

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Background

tryptase delta 1 (TPSD1) Homo sapiens 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. Although this gene may be an exception, most of the tryptase 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. Tryptases have been implicated as mediators in the pathogenesis of asthma and other allergic and

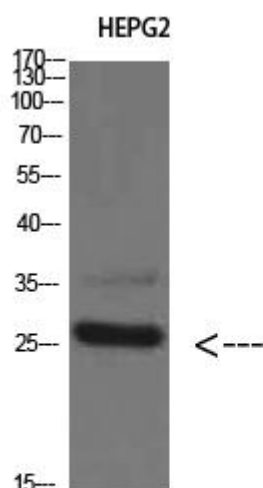
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using Tryptase-3 Monoclonal Antibody