10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mast cell tryptase Recombinant Mouse mAb

Catalog # AP100153

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q15661
Other Accession	Q15661
Reactivity	Human, Mouse
Host	Mouse
Clonality	Recombinant
Calculated MW	30515
Physical State	Liquid
Immunogen	Recombinant Human Mast cell tryptase protein
Isotype	IgG1
Purity	Affinity Purification
Buffer	PBS with 100 □g/ml BSA,0.15% ProClin300 and 50% glycerol.
SIMILARITY	Belongs to the peptidase S1 family. Tryptase subfamily. Contains 1 peptidase S1 domain.
SUBUNIT	Homotetramer.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Tryptase is the major neutral protease present in mast cells and is secreted upon the coupled activation-degranulation response of this cell type. May play a role in innate immunity. Isoform 2 cleaves large substrates, such as fibronectin, more efficiently than isoform 1, but seems less efficient toward small substrates.

Additional Information

Gene ID	7177
Other Names	TPS1; TPS2; TPSB1; TPSB2; Tryptase-2; MMCP-7; Mcp-7; Mcp7; Mcpt7; rMCP-7; TRYB1_HUMAN; TPSAB1; Tryptase-1; Tryptase I; Tryptase alpha-1; 3.4.21.59; TRYB1_MOUSE; Mast cell protease 7 (mMCP-7); Tryptase alpha/beta-1; TRYB1_RAT; Mast cell protease 7 (rMCP-7); Tryptase, skin; TRYB2_HUMAN; Tryptase II; tryptase alpha/beta 1; tryptase beta 1; tryptase alpha II; tryptase beta I; tryptase-I; tryptase-II; tryptase-III; mast cell tryptase
Dilution	IHC-P=1: 100-500,IF=1: 100-500,IHC-F=1: 100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	TPSAB1
Synonyms	TPS1, TPS2, TPSB1
Function	Tryptase is the major neutral protease present in mast cells and is secreted upon the coupled activation-degranulation response of this cell type. May play a role in innate immunity. Isoform 2 cleaves large substrates, such as fibronectin, more efficiently than isoform 1, but seems less efficient toward small substrates (PubMed:18854315).
Cellular Location	Secreted. Note=Released from the secretory granules upon mast cell activation.
Tissue Location	Isoform 1 and isoform 2 are expressed in lung, stomach, spleen, heart and skin; in these tissues, isoform 1 is predominant. Isoform 2 is expressed in aorta, spleen, and breast tumor, with highest levels in the endothelial cells of some blood vessels surrounding the aorta, as well as those surrounding the tumor and low levels, if any, in mast cells (at protein level)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.