

Mouse Tryptase Monoclonal Antibody | anti-TPSAB1 antibody

Tryptase (Mast Cell Marker)

CATALOG # AAA214704	HOST Mouse	REACTIVITY Human. Others not known.	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

Tryptase; Monoclonal Antibody; Tryptase (Mast Cell Marker); Lung Tryptase; Mast cell alpha II Tryptase; Mast cell beta I Tryptase; Mast cell protease 7; Mast cell protease II; MCP7; Pituitary Tryptase; Skin Tryptase; TPS1; TPSAB1; TPSB1; Tryptase 1; Tryptase alpha 1; Tryptase skin; anti-TPSAB1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	TPSAB1/1961
Specificity	Tryptases comprise a family of trypsin-like serine proteases (peptidase family S1). Tryptases are stored in mast cell secretory granules and basophils. Mast cells are connective tissue cells derived from blood-forming tissues that line arterial walls and secrete substances, which mediate inflammatory and immune responses. Tryptases are released into the extracellular environment and are resistant to all known endogenous proteinase inhibitors. This antibody reacts with mast cells distributed in skin, synovium, lung, and heart. This antibody does not bind with any other cell type. Human mast cell tryptase is considered to be an important marker of mast cell activation and is an important mediator of inflammation. Mastocytosis is a term collectively used for a group of disorders in which there is abnormal accumulation of mast cells in one or multiple organs. Anti-tryptase, combined with anti-CD2, anti-CD25, and anti-CD117, can be useful in identifying reactive mast cell hyperplasia, myelogenous neoplasms, mast cell leukemia, and mastocytosis.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	275
Applicable Applications for anti-TPSAB1 antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant human Tryptase protein fragment (around aa 115-233)
Cellular Localization	Secreted and Cytoplasmic
Hu-chromosome Location	16p13.3
Positive Control	Skin or Tonsil

IMAGES



Application Data

Analysis of Protein Array containing more than 19, 000 full-length human proteins using Tryptase Mouse Monoclonal Antibody (TPSAB1/1961).Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE

SDS-PAGE Analysis Purified Tryptase Mouse Monoclonal Antibody (TPSAB1/1961).Confirmation of Integrity and Purity of Antibody.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded Human Tonsil stained with Tryptase Mouse Monoclonal Antibody (TPSAB1/1961).

ADDITIONAL INFORMATION

References	Gurish, M.F. and Austen, K.F. 2001. The diverse roles of mast cells. J. Exp. Med. 194: F1-F5.
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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
Molecular Weight	31-36kDa
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

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.