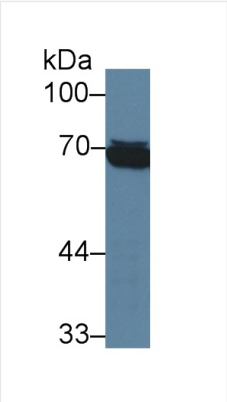
Tryptase (TPS) Antibody – Mouse Monoclonal

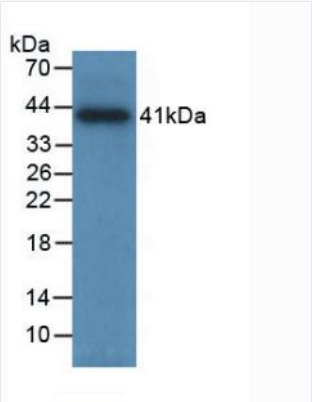
PRODUCT OVERVIEW

Product Name	Tryptase (TPS), Monoclonal Antibody
Full Product Name	Monoclonal Antibody to Tryptase (TPS)
Product Gene Name	anti-TPS antibody
Product Synonym Names	TPSAB1; Tryptase Alpha/Beta 1; Tryptase Alpha II; Tryptase Beta I; Tryptase-I; Tryptase-II; Tryptase-III
Clonality	Monoclonal
Isotype	IgG
Clone Number	C16
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	Protein A + Protein G affinity chromatography
Concentration	1mg/mL (lot specific)
Specificity	The antibody is a mouse monoclonal antibody raised against TPS. It has been selected for its ability to recognize TPS in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 4 degree C for frequent use. Stored at -20 degree C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: TPS Clone #C16 (MBS2085885) Immunogen: TPS (MBS2010007)
Matching Pairs	Unconjugated Antibody: TPS Clone #C16 (MBS2085885) APC-CY7 Conjugated Antibody: TPS Clone #C16 (MBS2051177)
Matching Pairs	Unconjugated Antibody: TPS Clone #C16 (MBS2085885) PE Conjugated Antibody: TPS Clone #C16 (MBS2051180)
Matching Pairs	Unconjugated Antibody: TPS Clone #C16 (MBS2085885) APC Conjugated Antibody: TPS Clone #C16 (MBS2051183)
Matching Pairs	Unconjugated Antibody: TPS Clone #C16 (MBS2085885) Cy3 Conjugated Antibody: TPS Clone #C16 (MBS2051186)
Matching Pairs	Unconjugated Antibody: TPS Clone #C16 (MBS2085885) FITC Conjugated Antibody: TPS Clone #C16 (MBS2051190)
Matching Pairs	Unconjugated Antibody: TPS Clone #C16 (MBS2085885) HRP Conjugated Antibody: TPS Clone #C16 (MBS2051193)
Matching Pairs	Unconjugated Antibody: Tryptase (TPS) Clone #C16 (MBS2085885) Biotin Conjugated Secondary Antibody: IgG (MBS2086030)
Matching Pairs	Unconjugated Antibody: Tryptase (TPS) Clone #C16 (MBS2085885) FITC Conjugated Secondary Antibody: IgG (MBS2086031)

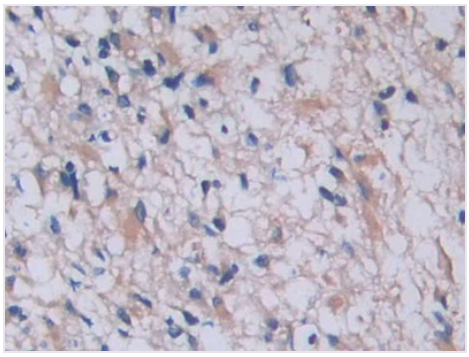
Matching Pairs	Unconjugated Antibody: Tryptase (TPS) Clone #C16 (MBS2085885) Biotin Conjugated Secondary Antibody: IgG (MBS2086033)
Matching Pairs	Unconjugated Antibody: Tryptase (TPS) Clone #C16 (MBS2085885) FITC Conjugated Secondary Antibody: IgG (MBS2086034)
Matching Pairs	Unconjugated Antibody: Tryptase (TPS) Clone #C16 (MBS2085885) HRP Conjugated Secondary Antibody: IgG (MBS2086035)
Matching Pairs	Unconjugated Antibody: TPS Clone #C16 (MBS2085885) Biotin Conjugated Antibody: TPS Clone #C16 (MBS2091021)
Molecular Weight	29,533 Da
OMIM	M30038 mRNA
3D Structure	ModBase 3D Structure for Q15661
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	Recombinant Tryptase (TPS) (Gly161~Tyr262)
Cross Reactivity	Human
Buffer Formulation	0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.
Label	None
Conjugated Antibody	The APC conjugated antibody version of this item is also available as catalog #MBS2051183
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-TPS antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-TPS antibody	Western Blot: 0.5-5ug/ml Immunocytochemistry in formalin fixed cells: 5-30ug/ml Immunohistochemistry in formalin fixed frozen section: 5-30ug/ml Immunohistochemistry in paraffin section: 5-30ug/ml Enzyme-linked Immunosorbent Assay: 0.05-2ug/ml
Related Product Information for anti-TPS antibody	MBS2085885 is an antibody targeting TPS. Also known as Monoclonal Antibody to Tryptase (TPS). Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-TPS antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



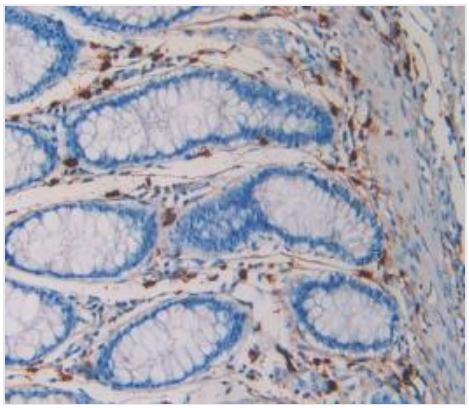
Western Blot (WB) of anti-TPS antibody
Western Blot: Sample: Human Raji cell lysate; Primary Ab: 3ug/ml Mouse Anti-Human HSPA1L Antibody Second Ab: 0.2ug/mL HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody



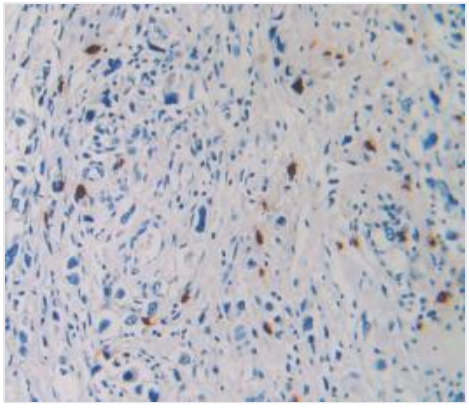
Western Blot (WB) of anti-TPS antibody
Western Blot: Sample: Recombinant TPS, Human.



Immunohistochemistry (IHC) of anti-TPS antibody
DAB staining on IHC-P; Samples: Human Stomach Tissue.



Immunohistochemistry (IHC) of anti-TPS antibody
DAB staining on IHC-P; Samples: Human Rectum Cancer Tissue



Immunohistochemistry (IHC) of anti-TPS antibody
DAB staining on IHC-P; Samples: Human Stomach Cancer Tissue.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TPS. It may not necessarily be applicable to this product.

NCBI GI #	13775595
NCBI GeneID	7177
NCBI Accession #	NP_003285.2
UniProt Primary Accession #	Q15661
UniProt Secondary Accession #	P15157; Q15663; Q6B052; Q9H2Y4; Q9H2Y5; Q9UQI1; D2E6R9; D2E6S1
UniProt Related Accession #	Q15661
GenBank Nucleotide #	NM_003294.3
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
UniProt Protein Name	Tryptase alpha/beta-1
UniProt Synonym Protein Names	Tryptase I; Tryptase alpha-1
Protein Family	Development-specific protein
UniProt Gene Name	TPSAB1

UniProt Synonym Gene Names	TPS1; TPS2; TPSB1; Tryptase-1
NCBI Protein Information	tryptase alpha/beta-1
NCBI Summary for TPS	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. [provided by RefSeq, Jul 2008]
UniProt Comments for TPS	TPSAB1: Tryptase is the major neutral protease present in mast cells and is secreted upon the coupled activation-degranulation response of this cell type. Belongs to the peptidase S1 family. Tryptase subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.4.21.59; Protease; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 16p13.3 Cellular Component: extracellular matrix; extracellular region; extracellular space Molecular Function: protein binding; serine-type endopeptidase activity; serine-type peptidase activity Biological Process: defense response; extracellular matrix disassembly; proteolysis
Research Articles on TPS	**1.** Increased TPSAB1 copy number is associated with multisystem disorder.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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