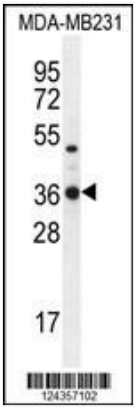
TPSD1 Antibody – Rabbit Polyclonal

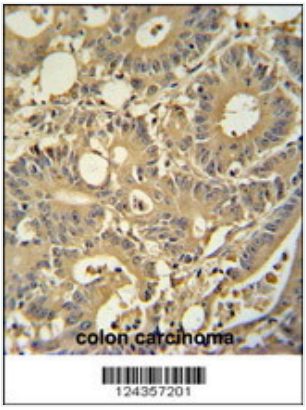
PRODUCT OVERVIEW

Product Name	TPSD1, Polyclonal Antibody
Full Product Name	TPSD1, CT (TPSD1, Tryptase delta, Delta-tryptase, HmMCP-3-like tryptase III, Mast cell mMCP-7-like, Tryptase-3)
Product Gene Name	anti-TPSD1 antibody
Product Synonym Names	Anti -TPSD1, CT (TPSD1, Tryptase delta, Delta-tryptase, HmMCP-3-like tryptase III, Mast cell mMCP-7-like, Tryptase-3)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Human
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	26,584 Da
Chromosome Location	Chromosome: 16; NC_000016.9 (1306273..1308494). Location: 16p13.3
OMIM	609272
3D Structure	ModBase 3D Structure for Q9BZJ3
Immunogen	TPSD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 171-201 amino acids from the C-terminal region of human TPSD1.
Product Categories/Family for anti-TPSD1 antibody	Antibodies; Abs to Enzymes; Protease (Proteinase; Peptidase)
Applications Tested/Suitable for anti-TPSD1 antibody	ELISA (EL/EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-TPSD1 antibody	Suitable for use in Western Blot, Immunohistochemistry, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500 Immunohistochemistry: 1:50-100
Related Product Information for anti-TPSD1 antibody	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 inflammatory disorders. TPSD1 was once considered to be a pseudogene, although it is now believed to be a functional gene that encodes a protein.

Other Notes	Small volumes of anti-TPSD1 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.
Searchable Terms for TPSD1 purchase	MBS6009850 is an antibody targeting TPSD1. Also known as TPSD1, CT (TPSD1, Tryptase delta, Delta-tryptase, HmMCP-3-like tryptase III, Mast cell mMCP-7-like, Tryptase-3). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-TPSD1 antibody
TPSD1 Antibody (C-term) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the TPSD1 antibody detected the TPSD1 protein (arrow).



Immunohistochemistry (IHC) of anti-TPSD1 antibody
TPSD1 antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human colon carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the TPSD1 antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TPSD1. It may not necessarily be applicable to this product.

NCBI GI #	11321636
NCBI GeneID	23430
NCBI Accession #	NP_036349.1
UniProt Primary Accession #	Q9BZJ3
UniProt Secondary Accession #	O95824; Q8TDI6; Q96L36; Q96RZ5; Q9H2Y6; Q9UQI8
UniProt Related Accession #	Q9BZJ3
GenBank Nucleotide #	NM_012217.2
NCBI Official Full Name	tryptase delta
NCBI Official Synonym Full Names	tryptase delta 1
NCBI Official Symbol	TPSD1
NCBI Official Synonym Symbols	MCP7L1; MMCP-7L; MCP7-LIKE
UniProt Protein Name	Tryptase delta
UniProt Synonym Protein Names	Delta-tryptase; HmMCP-3-like tryptase III; Mast cell mMCP-7-like; Tryptase-3
Protein Family	Tryptase
UniProt Gene Name	TPSD1
UniProt Entry Name	TRYD_HUMAN
NCBI Protein Information	tryptase delta; tryptase-3; mMCP-7-like-1; mMCP-7-like-2; delta-tryptase; mast cell tryptase; hmMCP-3-like tryptase III; mMCP-7-like delta II tryptase

NCBI Summary for TPSD1	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 inflammatory disorders. This gene was once considered to be a pseudogene, although it is now believed to be a functional gene that encodes a protein. [provided by RefSeq, Jul 2008]
UniProt Comments for TPSD1	TPSD1: 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, signal peptide; Secreted Chromosomal Location of Human Ortholog: 16p13.3 Cellular Component: extracellular region Molecular Function: serine-type peptidase activity; serine-type endopeptidase activity Biological Process: proteolysis
Research Articles on TPSD1	**1.** Delta tryptase transcripts have been detected in a wide variety of tissues including lung, heart, stomach, spleen, skin, and colon, and a recombinant form is proteolytically active.
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