TMPRSS4 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	TMPRSS4, Blocking Peptide
Full Product Name	TMPRSS4 Peptide - N-terminal region
Product Gene Name	TMPRSS4 blocking peptide
Product Synonym Gene Name	MT-SP2; TMPRSS3; CAPH2
Sequence	IPRKQLCDGE LDCPLGEDEE HCVKSFPEGP AVAVRLSKDR STLQVLDSAT
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	TMPRSS4 peptide (MBS3234425) is used for blocking the activity of TMPRSS4 antibody (MBS3209466)
Molecular Weight	48kDa
OMIM	606565
Product Categories/Family for TMPRSS4 blocking peptide	Peptide
Applications Tested/Suitable for TMPRSS4 blocking peptide	Western Blot (WB)
Related Product Information for TMPRSS4 blocking peptide	This is a synthetic peptide designed for use in combination with anti-TMPRSS4 Antibody, made Target Description: This gene encodes a member of the serine protease family. Serine proteases are known to be involved in a variety of biological processes, whose malfunction often leads to human diseases and disorders. This gene was identified as a gene overexpressed in pancreatic carcinoma. The encoded protein is membrane bound with a N-terminal anchor sequence and a glycosylated extracellular region containing the serine protease domain. Multiple transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of TMPRSS4 blocking peptide 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 TMPRSS4 purchase	MBS3234425 is a blocking peptide targeting TMPRSS4. Also known as TMPRSS4 Peptide - N-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TMPRSS4. It may not necessarily be applicable to this product.

NCBI GI #	145701030
NCBI GeneID	56649
NCBI Accession #	NP_001077416
UniProt Primary Accession #	Q9NRS4
UniProt Related Accession #	Q9NRS4
GenBank Nucleotide #	NM_001083947

NCBI Official Full Name	transmembrane protease serine 4 isoform 3
NCBI Official Synonym Full Names	transmembrane serine protease 4
NCBI Official Symbol	TMPRSS4
NCBI Official Synonym Symbols	CAPH2; MT-SP2; TMPRSS3
UniProt Protein Name	Transmembrane protease serine 4
UniProt Synonym Protein Names	Channel-activating protease 2; CAPH2; Membrane-type serine protease 2; MT-SP2
Protein Family	Transmembrane protease serine
UniProt Gene Name	TMPRSS4
UniProt Synonym Gene Names	TMPRSS3; CAPH2; MT-SP2
UniProt Entry Name	TMPS4_HUMAN
NCBI Protein Information	transmembrane protease serine 4
NCBI Summary for TMPRSS4	This gene encodes a member of the serine protease family. Serine proteases are known to be involved in a variety of biological processes, whose malfunction often leads to human diseases and disorders. This gene was identified as a gene overexpressed in pancreatic carcinoma. The encoded protein is membrane bound with a N-terminal anchor sequence and a glycosylated extracellular region containing the serine protease domain. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for TMPRSS4	TMPRSS4: Probable protease. Seems to be capable of activating ENaC. Belongs to the peptidase S1 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.4.21.-; Protease; Membrane protein, integral Chromosomal Location of Human Ortholog: 11q23.3 Cellular Component: integral to membrane Molecular Function: serine-type endopeptidase activity; scavenger receptor activity Biological Process: receptor-mediated endocytosis; proteolysis
Research Articles on TMPRSS4	**1.** Data suggest that miR-551b-3p functions as a tumour suppressor gene in gastric cancer, and its function is regulated by long noncoding RNAs (lncRNAs) SMARCC2/miR-551b-3p/transmembrane protease, serine 4 protein (TMPRSS4) axis.
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