TMED9 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	TMED9, Blocking Peptide
Full Product Name	TMED9 Antibody (C-term) Blocking peptide
Product Gene Name	TMED9 blocking peptide
Product Synonym Gene Name	GP25L2
Product Synonym Names	Transmembrane emp24 domain-containing protein 9; GMP25; Glycoprotein 25L2; p24 family protein alpha-2; p24alpha2; p25; TMED9; GP25L2
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the C-term region of TMED9. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	TMED9 peptide (MBS9219787) is used for blocking the activity of TMED9 antibody (MBS9211092)
Molecular Weight	27,277 Da
Cellular Location	Endoplasmic reticulum membrane; Single-pass type I membrane protein. Golgi apparatus, cis-Golgi network membrane; Single-pass type I membrane protein. Endoplasmic reticulum-Golgi intermediate compartment membrane; Single-pass type I membrane protein. Golgi apparatus, trans-Golgi network membrane; Single-pass type I membrane protein. Note: Cycles between compartments of the early secretatory pathway
Related Product Information for TMED9 blocking peptide	Appears to be involved in vesicular protein trafficking, mainly in the early secretory pathway. In COPI vesicle-mediated retrograde transport involved in the coatomer recruitment to membranes of the early secretory pathway. Increases coatomer- dependent activity of ARFGAP2. Thought to play a crucial role in the specific retention of p24 complexes in cis-Golgi membranes; specifically contributes to the coupled localization of TMED2 and TMED10 in the cis-Golgi network. May be involved in organization of intracellular membranes, such as of the ER-Golgi intermediate compartment and the Golgi apparatus. Involved in ER localization of PTPN2 isoform PTPB.
Other Notes	Small volumes of TMED9 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 TMED9 purchase	MBS9219787 is a blocking peptide targeting TMED9. Also known as TMED9 Antibody (C-term) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TMED9. It may not necessarily be applicable to this product.

NCBI GI #	239938724
NCBI GeneID	54732
NCBI Accession #	Q9BVK6.2
UniProt Primary Accession #	Q9BVK6
UniProt Secondary Accession #	Q14437; Q8WZ61
UniProt Related Accession #	Q9BVK6
NCBI Official Full Name	Transmembrane emp24 domain-containing protein 9

NCBI Official Synonym Full Names	transmembrane p24 trafficking protein 9
NCBI Official Symbol	TMED9
NCBI Official Synonym Symbols	p25; GMP25; p24a2; HSGP25L2G; p24alpha2
UniProt Protein Name	Transmembrane emp24 domain-containing protein 9
UniProt Synonym Protein Names	GMP25; Glycoprotein 25L2; p24 family protein alpha-2; p24alpha2; p25
Protein Family	Transmembrane emp24 domain-containing protein
UniProt Gene Name	TMED9
UniProt Synonym Gene Names	GP25L2; p24alpha2
UniProt Entry Name	TMED9_HUMAN
NCBI Protein Information	transmembrane emp24 domain-containing protein 9
NCBI Summary for TMED9	This gene is a member of a family of genes encoding transport proteins located in the endoplasmic reticulum and the Golgi. A similar gene in mouse is the target of microRNA miR-296, which is part of an imprinted cluster. [provided by RefSeq, Jul 2016]
UniProt Comments for TMED9	TMED9: Appears to be involved in vesicular protein trafficking, mainly in the early secretory pathway. In COPI vesicle-mediated retrograde transport involved in the coatomer recruitment to membranes of the early secretory pathway. Increases coatomer- dependent activity of ARFGAP2. Thought to play a crucial role in the specific retention of p24 complexes in cis-Golgi membranes; specifically contributes to the coupled localization of TMED2 and TMED10 in the cis-Golgi network. May be involved in organization of intracellular membranes, such as of the ER-Golgi intermediate compartment and the Golgi apparatus. Involved in ER localization of PTPN2 isoform PTPB. Belongs to the EMP24/GP25L family. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 5q35.3 Cellular Component: endoplasmic reticulum; endoplasmic reticulum membrane; ER-Golgi intermediate compartment; ER-Golgi intermediate compartment membrane; Golgi apparatus; Golgi membrane; trans-Golgi network transport vesicle; transport vesicle Molecular Function: protein binding; syntaxin binding Biological Process: COPI coating of Golgi vesicle; ER to Golgi vesicle-mediated transport; Golgi organization and biogenesis; protein exit from endoplasmic reticulum; retrograde vesicle-mediated transport, Golgi to ER
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