MARCH-8 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	MARCH8 (MARCH-8), Blocking Peptide
Full Product Name	MARCH-8 Peptide - middle region
Product Gene Name	MARCH-8 blocking peptide
Product Synonym Gene Name	MARCH-VIII; MIR; RNF178; c-MIR
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	MARCH8 peptide (MBS3231816) is used for blocking the activity of MARCH8 antibody (MBS3206851)
Molecular Weight	33kDa
OMIM	613335
Product Categories/Family for MARCH-8 blocking peptide	Peptide
Applications Tested/Suitable for MARCH-8 blocking peptide	Western Blot (WB)
Related Product Information for MARCH-8 blocking peptide	This is a synthetic peptide designed for use in combination with anti-MARCH8 antibody made Target Description: MARCH8 is an E3 ubiquitin-protein ligase that may regulate immune responses by promoting ubiquitination of MHC-II and CD86, which leads to their subsequent endocytosis and lysosomal degradation. It may also promote ubiquitination and endocytosis of TFRC and FAS. E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfer the ubiquitin to targeted substrates.
Other Notes	Small volumes of MARCH-8 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 MARCH-8 purchase	MBS3231816 is a blocking peptide targeting MARCH-8. Also known as MARCH-8 Peptide - middle region.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MARCH-8. It may not necessarily be applicable to this product.

NCBI GI #	50539410
NCBI GeneID	220972
NCBI Accession #	NP_659458
UniProt Primary Accession #	Q5T0T0
UniProt Related Accession #	Q5T0T0
GenBank Nucleotide #	NM_145021
NCBI Official Full Name	E3 ubiquitin-protein ligase MARCH8 isoform a
NCBI Official Synonym Full Names	membrane associated ring-CH-type finger 8
NCBI Official Symbol	MARCH8

NCBI Official Synonym Symbols	MIR; CMIR; c-MIR; RNF178; MARCH-VIII
UniProt Protein Name	E3 ubiquitin-protein ligase MARCH8
UniProt Synonym Protein Names	Cellular modulator of immune recognition; c-MIR; Membrane-associated RING finger protein 8; Membrane-associated RING-CH protein VIII; MARCH-VIII; RING finger protein 178
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	MARCH8
UniProt Synonym Gene Names	MIR; RNF178; c-MIR; MARCH-VIII
UniProt Entry Name	MARH8_HUMAN
NCBI Protein Information	E3 ubiquitin-protein ligase MARCH8
NCBI Summary for MARCH-8	MARCH8 is a member of the MARCH family of membrane-bound E3 ubiquitin ligases (EC 6.3.2.19). MARCH enzymes add ubiquitin (see MIM 191339) to target lysines in substrate proteins, thereby signaling their vesicular transport between membrane compartments. MARCH8 induces the internalization of several membrane glycoproteins (Goto et al., 2003 [PubMed 12582153]; Bartee et al., 2004 [PubMed 14722266]).[supplied by OMIM, Apr 2010]
UniProt Comments for MARCH-8	MARCH8: E3 ubiquitin-protein ligase that mediates ubiquitination of CD86 and MHC class II proteins, such as HLA-DR alpha and beta, and promotes their subsequent endocytosis and sorting to lysosomes via multivesicular bodies. May also promote ubiquitination and endocytosis of TFRC and FAS. Protein type: Membrane protein, multi-pass; Ligase; Ubiquitin ligase; Ubiquitin conjugating system; EC 6.3.2.-; EC 6.3.2.19; Membrane protein, integral Chromosomal Location of Human Ortholog: 10q11.21 Cellular Component: cytoplasmic vesicle membrane; lysosomal membrane; early endosome membrane; lysosome; integral to membrane; endosome Molecular Function: zinc ion binding; ubiquitin-protein ligase activity; MHC class II protein binding; ligase activity Biological Process: protein polyubiquitination; antigen processing and presentation of peptide antigen via MHC class II; negative regulation of MHC class II biosynthetic process
Research Articles on MARCH-8	**1.** Knockdown of MARCH8 inactivated the PI3K and ss-catenin stat3 signaling pathways by changing protein expression levels or the phosphorylation of related proteins and inhibited migration and invasion of MKN-45 and AGS cells.
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