PRDM6 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	PRDM6, Blocking Peptide
Full Product Name	PRDM6 Peptide - C-terminal region
Product Gene Name	PRDM6 blocking peptide
Sequence	Synthetic peptide located within the following region: FAGATTLNNH IRTHTGEKPF KCERCERSFT QATQLSRHQR MPNECKPITE
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	PRDM6 peptide (MBS3228042) is used for blocking the activity of PRDM6 antibody (MBS3203069)
Molecular Weight	45kDa
OMIM	AF272898 mRNA
Product Categories/Family for PRDM6 blocking peptide	Peptide
Applications Tested/Suitable for PRDM6 blocking peptide	Western Blot (WB)
Related Product Information for PRDM6 blocking peptide	This is a synthetic peptide designed for use in combination with anti-PRDM6 Antibody, made Target Description: PRDM6 contains 4 C2H2-type zinc fingers and 1 SET domain. PRDM6 may be involved in transcriptional regulation.
Other Notes	Small volumes of PRDM6 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 PRDM6 purchase	MBS3228042 is a blocking peptide targeting PRDM6. Also known as PRDM6 Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRDM6. It may not necessarily be applicable to this product.

NCBI GI #	210031233
NCBI GeneID	93166
NCBI Accession #	NP_001129711.1
UniProt Primary Accession #	Q9NQX0
UniProt Related Accession #	Q9NQX0
GenBank Nucleotide #	NM_001136239.4
NCBI Official Full Name	putative histone-lysine N-methyltransferase PRDM6
NCBI Official Synonym Full Names	PR/SET domain 6

NCBI Official Symbol	PRDM6
NCBI Official Synonym Symbols	PDA3; KMT8C; PRISM
UniProt Protein Name	Putative histone-lysine N-methyltransferase PRDM6
UniProt Synonym Protein Names	PR domain zinc finger protein 6; PR domain-containing protein 6
Protein Family	Putative histone-lysine N-methyltransferase
UniProt Gene Name	PRDM6
UniProt Synonym Gene Names	PFM3
NCBI Protein Information	putative histone-lysine N-methyltransferase PRDM6
NCBI Summary for PRDM6	The protein encoded by this gene is a transcriptional repressor and a member of the PRDM family. Family members contain a PR domain and multiple zinc-finger domains. The encoded protein is involved in regulation of vascular smooth muscle cells (VSMC) contractile proteins. Mutations in this gene result in patent ductus arteriosus 3 (PDA3). [provided by RefSeq, Apr 2017]
UniProt Comments for PRDM6	PRDM6: Putative histone methyltransferase that acts as a transcriptional repressor of smooth muscle gene expression. Promotes the transition from differentiated to proliferative smooth muscle by suppressing differentiation and maintaining the proliferative potential of vascular smooth muscle cells. Also plays a role in endothelial cells by inhibiting endothelial cell proliferation, survival and differentiation. It is unclear whether it has histone methyltransferase activity in vivo. According to some authors, it does not act as a histone methyltransferase by itself and represses transcription by recruiting EHMT2/G9a. According to others, it possesses histone methyltransferase activity when associated with other proteins and specifically methylates 'Lys-20' of histone H4 in vitro. 'Lys-20' methylation represents a specific tag for epigenetic transcriptional repression. 3 isoforms of the human protein are produced by alternative splicing. Protein type: C2H2-type zinc finger protein; Cell development/differentiation; EC 2.1.1.43; Methyltransferase; Methyltransferase, protein lysine Chromosomal Location of Human Ortholog: 5q23.2 Cellular Component: nucleus Molecular Function: histone-lysine N-methyltransferase activity; metal ion binding; nucleic acid binding; protein homodimerization activity Biological Process: negative regulation of smooth muscle cell differentiation; negative regulation of transcription, DNA-dependent; neurogenesis; transcription, DNA-dependent Disease: Patent Ductus Arteriosus 3
Research Articles on PRDM6	**1.** Mutations in the Histone Modifier PRDM6 Are Associated with Isolated Nonsyndromic Patent Ductus Arteriosus.
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