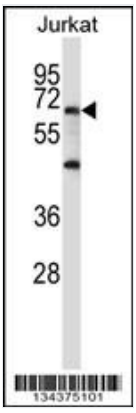
PRDM6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PRDM6, Polyclonal Antibody
Full Product Name	PRDM6, NT (PRDM6, PFM3, Putative histone-lysine N-methyltransferase PRDM6, PR domain zinc finger protein 6, PR domain-containing protein 6) (FITC)
Product Gene Name	anti-PRDM6 antibody
Product Synonym Names	PRDM6; PFM3; Putative histone-lysine N-methyltransferase PRDM6; PR domain zinc finger protein 6; PR domain-containing protein 6
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	46,635 Da
OMIM	AF272898 mRNA
3D Structure	ModBase 3D Structure for Q9NQX0
Immunogen	PRDM6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 43-72 amino acids from the N-terminal region of human PRDM6.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-PRDM6 antibody	Antibodies; Enzymes; Methyltransferase
Applications Tested/Suitable for anti-PRDM6 antibody	Western Blot (WB), FLISA
Application Notes for anti-PRDM6 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.

Related Product Information for anti-PRDM6 antibody	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 (By similarity).
Product References and Citations for anti-PRDM6 antibody	Rose, J. Phd, et al. Mol. Med. (2010). In press: Vasan, R.S., et al. JAMA 302(2):168-178(2009).
Other Notes	Small volumes of anti-PRDM6 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 PRDM6 purchase	MBS6337086 is an antibody targeting PRDM6. Also known as PRDM6, NT (PRDM6, PFM3, Putative histone-lysine N-methyltransferase PRDM6, PR domain zinc finger protein 6, PR domain-containing protein 6) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PRDM6 antibody
PRDM6 Antibody (N-term) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the PRDM6 antibody detected the PRDM6 protein (arrow).

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 Secondary Accession #	Q9NQW9; B5MCJ4
UniProt Related Accession #	Q9NQX0
GenBank Nucleotide #	NM_001136239.3
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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