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PRDM6 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14412a

Product Information

Application	WB, E
Primary Accession	Q9NQX0
Other Accession	NP_001129711.1
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34375
Calculated MW	64452
Antigen Region	44-72

Additional Information

Gene ID	93166
Other Names	Putative histone-lysine N-methyltransferase PRDM6, PR domain zinc finger protein 6, PR domain-containing protein 6, PRDM6, PFM3
Target/Specificity	This PRDM6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 44-72 amino acids from the N-terminal region of human PRDM6.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PRDM6 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PRDM6
Synonyms	PFM3

Function	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.
Cellular Location	Nucleus {ECO:0000250|UniProtKB:Q3UZD5}.

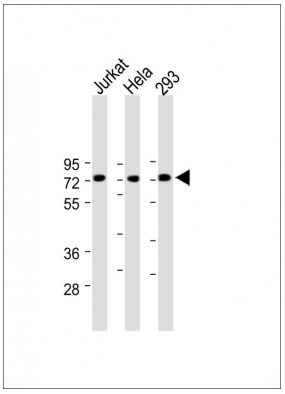
Background

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).

References

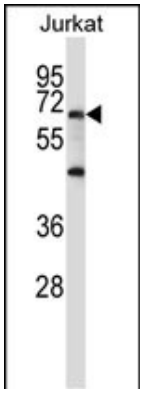
Rose, J. Phd, et al. Mol. Med. (2010) In press :
Vasan, R.S., et al. JAMA 302(2):168-178(2009)

Images



All lanes : Anti-PRDM6 Antibody (N-term) at 1:1000 dilution Lane 1: Jurkat whole cell lysate Lane 2: Hela whole cell lysate Lane 3: 293 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/15000 dilution. Observed band size : 75kDa Blocking/Dilution buffer: 5% NFDM/TBST.

PRDM6 Antibody (N-term) (Cat. #AP14412a) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the PRDM6 antibody detected the PRDM6 protein (arrow).



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.