

Mouse anti-Human PRDM16 Monoclonal Antibody | anti-PRDM16 antibody

PRDM16 Antibody

CATALOG # AAA290741	HOST Mouse	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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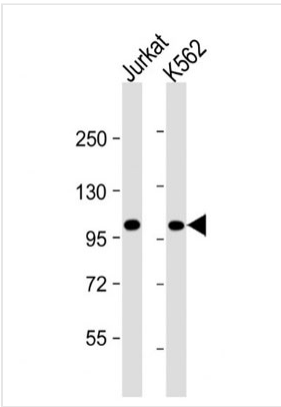
PRODUCT SYNONYMS

PRDM16; Monoclonal Antibody; PRDM16 Antibody; PR domain zinc finger protein 16; PR domain-containing protein 16; Transcription factor MEL1; MDS1/EVI1-like gene 1; KIAA1675; MEL1; PFM13; Purified Mouse Monoclonal Antibody (Mab); anti-PRDM16 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1,k
Specificity	This PRDM16 antibody is generated from a mouse immunized with a recombinant protein between 779-996 amino acids from PRDM16.
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Sequence Length	1276
Applicable Applications for anti-PRDM16 antibody	ELISA, WB (Western Blot)
Function	Binds DNA and functions as a transcriptional regulator (PubMed:). Displays histone methyltransferase activity and monomethylates 'Lys-9' of histone H3(H3K9me1) in vitro (By similarity). Probably catalyzes the monomethylation of free histone H3 in the cytoplasm which is then transported to the nucleus and incorporated into nucleosomes where SUV39 Hmethyltransferases use it as a substrate to catalyze histone H3 'Lys-9' trimethylation (By similarity). Likely to be one of the primary histone methyltransferases along with MECOM/PRDM3 that direct cytoplasmic H3K9me1 methylation (By similarity). Functions in the differentiation of brown adipose tissue (BAT) which is specialized in dissipating chemical energy in the form of heat in response to cold or excess feeding while white adipose tissue (WAT) is specialized in the storage of excess energy and the control of systemic metabolism (By similarity). Together with CEBPB, regulates the differentiation of myoblastic precursors into brown adipose cells (By similarity). Functions as a repressor of TGF-beta signaling (PubMed:).
Cellular Location	Nucleus.
Tissue Location	Expressed in uterus and kidney. Expressed in both cardiomyocytes and interstitial cells
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
All lanes : Anti-PRDM16 Antibody at 1:4000 dilution
Lane 1: Jurkat whole cell lysate
Lane 2: K562 whole cell lysate
Lysates/proteins at 20 ug per lane.
Secondary Goat Anti-mouse IgG₁ (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 140 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-PRDM16 antibody	Binds DNA and functions as a transcriptional regulator. Functions in the differentiation of brown adipose tissue (BAT) which is specialized in dissipating chemical energy in the form of heat in response to cold or excess feeding while white adipose tissue (WAT) is specialized in the storage of excess energy and the control of systemic metabolism. Together with CEBPB, regulates the differentiation of myoblastic precursors into brown adipose cells. Functions also as a repressor of TGF-beta signaling. Isoform 4 may regulate granulocytes differentiation.
Product Categories/Family for anti-PRDM16 antibody	Crown Antibodies
References	Mochizuki N.,et al.Blood 96:3209-3214(2000). Fang W.,et al.Submitted (AUG-2000) to the EMBL/GenBank/DDBJ databases. Nagase T.,et al.DNA Res. 7:347-355(2000). Nakajima D.,et al.DNA Res. 9:99-106(2002). Gregory S.G.,et al.Nature 441:315-321(2006).

NCBI AND UNIPROT INFORMATION

NCBI GI #	259016328
NCBI GeneID	63976
UniProt Accession #	Q9HAZ2; Q8WYJ9; Q9C0I8; A6NHQ8; B1AJP7; B1AJP8; B1AJP9; B1WB48
NCBI Official Full Name	PR domain zinc finger protein 16
NCBI Official Synonym Full Names	PR/SET domain 16
NCBI Official Symbol	PRDM16
NCBI Official Synonym Symbols	MEL1; LVNC8; PFM13; CMD1LL
NCBI Protein Information	PR domain zinc finger protein 16
UniProt Protein Name	PR domain zinc finger protein 16
UniProt Gene Name	PRDM16
UniProt Synonym Gene Names	MDS1/EV11-like gene 1
UniProt Entry Name	PRD16_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

