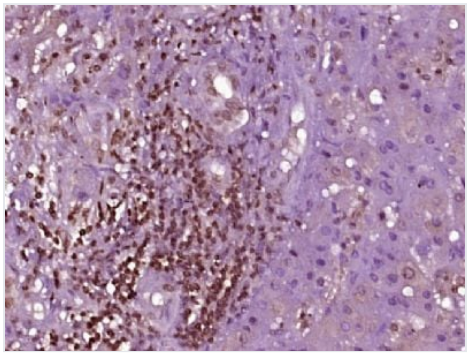
PRDM7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PRDM7, Polyclonal Antibody
Full Product Name	PRDM7 Polyclonal Antibody
Product Gene Name	anti-PRDM7 antibody
Product Synonym Names	Probable histone-lysine N-methyltransferase PRDM7; 2.1.1.-; PR domain zinc finger protein 7; PR domain-containing protein 7; PRDM7; PFM4
Clonality	Polyclonal
Host	Rabbit
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
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.
Molecular Weight	45,890 Da
OMIM	AM690991 mRNA
3D Structure	ModBase 3D Structure for Q9NQW5
Notes	ECO:0000303|PubMed:27129774, ECO:0000312|HGNC: HGNC:9351
Applications Tested/Suitable for anti-PRDM7 antibody	Immunohistochemistry-Paraffin (IHC-P), Immunohistochemistry-Frozen (IHC-F), Immunofluorescence (IF), Immunocytochemistry (ICC)
Related Product Information for anti-PRDM7 antibody	MBS9237302 is an antibody targeting PRDM7. Also known as PRDM7 Polyclonal Antibody. Host: Rabbit.
Other Notes	Small volumes of anti-PRDM7 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.



Immunohistochemistry (IHC)-Paraffin of anti-PRDM7 antibody
Paraformaldehyde-fixed, paraffin embedded (human liver tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37 degree C for 30min; Antibody incubation with (PRDM7) Polyclonal Antibody, Unconjugated (bs-19956R) at 1:400 overnight at 4 degree C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRDM7. It may not necessarily be applicable to this product.

NCBI GI #	148271100
NCBI GeneID	11105
NCBI Accession #	NP_001091643.1
UniProt Primary Accession #	Q9NQW5
UniProt Secondary Accession #	Q08EM4; Q9NQW4; A4Q9G8
UniProt Related Accession #	Q9NQW5
GenBank Nucleotide #	NM_001098173.1
NCBI Official Full Name	probable histone-lysine N-methyltransferase PRDM7
NCBI Official Synonym Full Names	PR/SET domain 7
NCBI Official Symbol	PRDM7
NCBI Official Synonym Symbols	PFM4; ZNF910
UniProt Protein Name	Probable histone-lysine N-methyltransferase PRDM7
UniProt Synonym Protein Names	PR domain zinc finger protein 7; PR domain-containing protein 7
Protein Family	Probable histone-lysine N-methyltransferase
UniProt Gene Name	PRDM7
UniProt Synonym Gene Names	PFM4
NCBI Protein Information	probable histone-lysine N-methyltransferase PRDM7
NCBI Summary for PRDM7	This gene encodes a member of a family of proteins that may have roles in transcription and other nuclear processes. The encoded protein contains a KRAB (Kruppel-associated box) domain -A box and a SET (Su(var)3-9, Enhancer-of-zeste, Trithorax) domain and may function as a histone methyltransferase. [provided by RefSeq, Aug 2013]
UniProt Comments for PRDM7	PRDM7: a probable histone methyltransferase. The mouse orthologous protein seems not to exist. Human PRDM7 and PRDM9 genes, a pair of close paralogs corresponding to a single mouse gene Prdm9, may have been generated by a recent gene duplication event after the divergence of the ancestors of human and mouse. Three isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.1.1.43; Methyltransferase; Methyltransferase, protein lysine Chromosomal Location of Human Ortholog: 16q24.3 Cellular Component: chromosome; nucleus Molecular Function: histone-lysine N-methyltransferase activity; nucleic acid binding; protein binding Biological Process: regulation of transcription, DNA-templated
Research Articles on PRDM7	**1.** These studies indicate that after a single serine to tyrosine mutation at residue 357 (S357Y), PRDM7 regains the substrate specificities and catalytic activities similar to its evolutionary predecessor, including the ability to efficiently methylate H3K36.
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