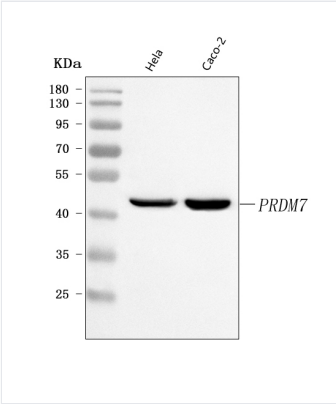
PRDM7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PRDM7, Polyclonal Antibody
Full Product Name	Anti-PRDM7 Antibody Picoband
Product Gene Name	anti-PRDM7 antibody
Product Synonym Names	Follicular dendritic cell secreted peptide; RNA-binding protein 47; RNA-binding protein 47; RNA-binding motif protein 47; RBM47
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Abundantly expressed in tonsil, lymph node, and trachea; strong expression in prostate; lower expression in thyroid, stomach, and colon.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.
Molecular Weight	45,890 Da
OMIM	AM690991 mRNA
3D Structure	ModBase 3D Structure for Q9NQW5
Immunogen	E coli-derived human PRDM7 recombinant protein (Position: Q415-R485).
Subcellular Localization	Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
Protein Function	Can bind to the surface of B-lymphoma cells, but not T- lymphoma cells, consistent with a function as a secreted mediator acting upon B-cells.
Product Categories/Family for anti-PRDM7 antibody	Primary Antibodies; Chromatin Binding Proteins; DNA/RNA Binding; Epigenetics and Nuclear Signaling
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-PRDM7 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-PRDM7 antibody	WB: 0.25-0.5ug/ml, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-PRDM7 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product References and Citations for anti-PRDM7 antibody	1. Jiang, G.-L., Huang, S. The yin-yang of PR-domain family genes in tumorigenesis. Histol. Histopath. 15: 109-117, 2000.

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.
Searchable Terms for PRDM7 purchase	MBS1759354 is an antibody targeting PRDM7. Also known as Anti-PRDM7 Antibody Picoband. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PRDM7 antibody
Figure 1. Western blot analysis of PRDM7 using anti-PRDM7 antibody (MBS1759354).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Hela whole cell lysates,Lane 2: human Caco-2 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PRDM7 antigen affinity purified polyclonal antibody (#MBS1759354) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (#MBS176460) with Tanon 5200 system. A specific band was detected for PRDM7 at approximately 46 kDa. The expected band size for PRDM7 is at 56 kDa.

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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