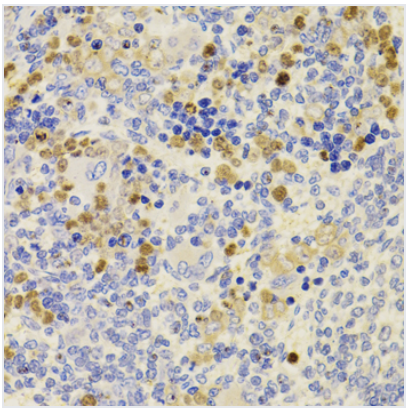
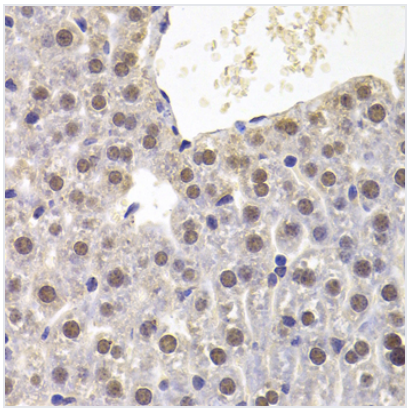
PRDM5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

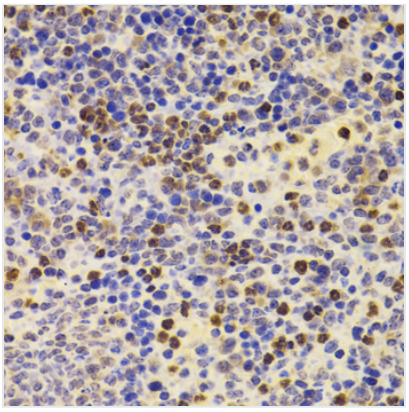
Product Name	PRDM5, Polyclonal Antibody
Full Product Name	PRDM5 Rabbit Polyclonal Antibody
Product Gene Name	anti-PRDM5 antibody
Product Synonym Names	PRDM5; BCS2; PFM2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	58,124 Da
OMIM	gene 614170
3D Structure	ModBase 3D Structure for Q9NQX1
Immunogen	Recombinant fusion protein of human PRDM5 (NP_061169.2).
Product Categories/Family for anti-PRDM5 antibody	Primary Antibody
Applications Tested/Suitable for anti-PRDM5 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-PRDM5 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IF: 1:50-1:200
Related Product Information for anti-PRDM5 antibody	The protein encoded by this gene is a transcription factor of the PR-domain protein family. It contains a PR-domain and multiple zinc finger motifs. Transcription factors of the PR-domain family are known to be involved in cell differentiation and tumorigenesis.
Other Notes	Small volumes of anti-PRDM5 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 PRDM5 purchase	MBS9466222 is an antibody targeting PRDM5. Also known as PRDM5 Rabbit Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



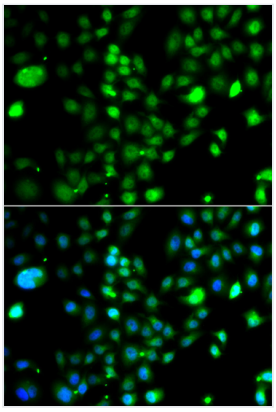
Immunohistochemistry (IHC) of anti-PRDM5 antibody
Immunohistochemistry of paraffin-embedded rat spleen using PRDM5 at dilution of 1:100 (40x lens).



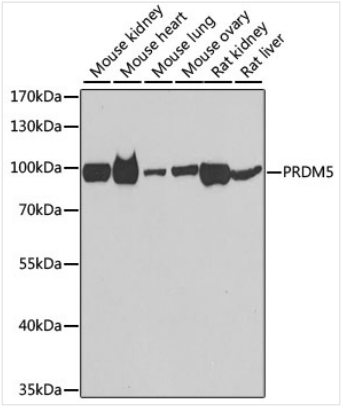
Immunohistochemistry (IHC) of anti-PRDM5 antibody
Immunohistochemistry of paraffin-embedded mouse liver using PRDM5 at dilution of 1:100 (40x lens).



Immunohistochemistry (IHC) of anti-PRDM5 antibody
Immunohistochemistry of paraffin-embedded mouse spleen using PRDM5 at dilution of 1:100 (40x lens).



Immunofluorescence (IF) of anti-PRDM5 antibody
Immunofluorescence analysis of A549 cells using PRDM5. Blue: DAPI for nuclear staining.



Western Blot (WB) of anti-PRDM5 antibody
Western blot analysis of extracts of various cell lines, using PRDM5 at 1:1000 dilution.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRDM5. It may not necessarily be applicable to this product.

NCBI GI #	41349476
NCBI GeneID	11107
NCBI Accession #	NP_061169.2
UniProt Primary Accession #	Q9NQX1
UniProt Secondary Accession #	Q0VAI9; Q0VAJ0; Q6NXQ7

UniProt Related Accession #	Q9NQX1
GenBank Nucleotide #	NM_018699.3
NCBI Official Full Name	PR domain zinc finger protein 5 isoform 1
NCBI Official Synonym Full Names	PR domain containing 5
NCBI Official Symbol	PRDM5
NCBI Official Synonym Symbols	BCS2; PFM2
UniProt Protein Name	PR domain zinc finger protein 5
UniProt Synonym Protein Names	PR domain-containing protein 5
Protein Family	PR domain zinc finger protein
UniProt Gene Name	PRDM5
UniProt Synonym Gene Names	PFM2
UniProt Entry Name	PRDM5_HUMAN
NCBI Protein Information	PR domain zinc finger protein 5
UniProt Comments for PRDM5	PRDM5: Sequence-specific DNA-binding transcription factor. Represses transcription at least in part by recruitment of the histone methyltransferase EHMT2/G9A and histone deacetylases such as HDAC1. Regulates hematopoiesis-associated protein-coding and microRNA (miRNA) genes. May regulate the expression of proteins involved in extracellular matrix development and maintenance, including fibrillar collagens, such as COL4A1 and COL11A1, connective tissue components, such as HAPLN1, and molecules regulating cell migration and adhesion, including EDIL3 and TGFB2. May caused G2/M arrest and apoptosis in cancer cells. Defects in PRDM5 are the cause of Brittle cornea syndrome type 2 (BCS2). A disorder characterized by extreme corneal thinning resulting in corneal rupture after minor trauma, blue sclerae, keratoconus or keratoglobus, hyperelasticity of the skin, and hypermobile joints. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; Methyltransferase, protein lysine, predicted; C2H2-type zinc finger protein; DNA-binding Chromosomal Location of Human Ortholog: 4q25-q26 Cellular Component: nucleus Molecular Function: methyltransferase activity; protein binding; sequence-specific DNA binding; metal ion binding Biological Process: transcription, DNA-dependent; histone deacetylation; mitotic cell cycle; negative regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent; histone H3-K9 methylation Disease: Brittle Cornea Syndrome 2
Research Articles on PRDM5	**1.** Data provide the first causal link between Prdm5 loss and intestinal carcinogenesis, and uncover an extensive and novel PRDM5 target repertoire likely facilitating the tumor-suppressive functions of PRDM5.
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