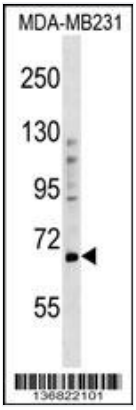
PRDM5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PRDM5, Polyclonal Antibody
Full Product Name	PRDM5 Antibody (N-term)
Product Gene Name	anti-PRDM5 antibody
Product Synonym Names	PR domain zinc finger protein 5; 211-; PR domain-containing protein 5; PRDM5; PFM2
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This PRDM5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 132-160 amino acids from the N-terminal region of human PRDM5.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	PRDM5 peptide (MBS9222454) is used for blocking the activity of PRDM5 antibody (MBS9212415)
Molecular Weight	73090
Immunogen Sequence Positions	132-160
OMIM	614161
3D Structure	ModBase 3D Structure for Q9NQX1
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Applications Tested/Suitable for anti-PRDM5 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-PRDM5 antibody	WB~~1:1000
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.
Product References and Citations for anti-PRDM5 antibody	Cheng, H.Y., et al. J. Cancer Res. Clin. Oncol. 136(12):1821-1825(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) : Kalsi, G., et al. Hum. Mol. Genet. 19(12):2497-2506(2010) Duan, Z., et al. Mol. Cell. Biol. 27(19):6889-6902(2007) Watanabe, Y., et al. Clin. Cancer Res. 13(16):4786-4794(2007)

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	MBS9212415 is an antibody targeting PRDM5. Also known as PRDM5 Antibody (N-term). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PRDM5 antibody
PRDM5 Antibody (N-term) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the PRDM5 antibody detected the PRDM5 protein (arrow).

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
NCBI Summary for PRDM5	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. [provided by RefSeq, Jul 2008]

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: DNA-binding; Transcription factor; Methyltransferase, protein lysine, predicted; C2H2-type zinc finger protein 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.** PRDM2, PRDM5, PRDM16 promoters are methylated and their expression is suppressed in lung cancer cells.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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