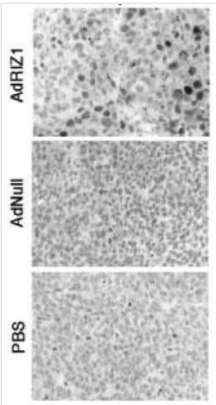
PRDM2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PRDM2, Polyclonal Antibody
Full Product Name	PRDM2 (PRDM2, KMT8, RIZ, PR domain zinc finger protein 2, GATA-3-binding protein G3B, Lysine N-methyltransferase 8, MTB-ZF, MTE-binding protein, PR domain-containing protein 2, Retinoblastoma protein-interacting zinc finger protein, Zinc finger protein RI
Product Gene Name	anti-PRDM2 antibody
Product Synonym Names	PRDM2; KMT8; RIZ; PR domain zinc finger protein 2; GATA-3-binding protein G3B; Lysine N-methyltransferase 8; MTB-ZF; MTE-binding protein; PR domain-containing protein 2; Retinoblastoma protein-interacting zinc finger protein; Zinc finger protein RIZ
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	162,107 Da
OMIM	U17838 mRNA
3D Structure	ModBase 3D Structure for Q13029
Immunogen	Purified recombinant GST fusion protein encoding a portion within aa 245-573 of rat Riz1. This antibody also recognizes the isoform beta (Riz2) of PRDM2 (185 kDa).
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-PRDM2 antibody	Antibodies; Retinoblastoma Proteins
Applications Tested/Suitable for anti-PRDM2 antibody	Immunohistochemistry (IHC), FLISA, Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-PRDM2 antibody	IHC: 1:100-500 FLISA: 1:1,000 IP: 1 ug Pab/100 ug cell lysate Applications are based on unconjugated antibody.
Related Product Information for anti-PRDM2 antibody	PRDM2 is a 250-kD nuclear protein containing 8 zinc finger motifs. It contains an RB-binding motif that is related to that of the adenovirus E1A oncoprotein; RIZ also shares an antigenic epitope with the C terminus of E1A. It is expressed in human retinoblastoma cells and at low levels in all other human cell lines examined. Using fluorescence in situ hybridization, the PRDM2 gene has been mapped to 1p36. PRDM2 may be a candidate target of 1p36 alterations that commonly occur in neuroendocrine, breast, liver, colon, skin, and lymphoid tumors.

Product References and Citations for anti-PRDM2 antibody	Muraosa, Y., et al., Eur. J. Biochem. 235(3):471-479 (1996). Buyse, I.M., et al., Proc. Natl. Acad. Sci. U.S.A. 92(10):4467-4471 (1995).
Other Notes	Small volumes of anti-PRDM2 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 PRDM2 purchase	MBS6337071 is an antibody targeting PRDM2. Also known as PRDM2 (PRDM2, KMT8, RIZ, PR domain zinc finger protein 2, GATA-3-binding protein G3B, Lysine N-methyltransferase 8, MTB-ZF, MTE-binding protein, PR domain-containing protein 2, Retinoblastoma protein-interacting zinc finger protein, Zinc finger protein RI. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-PRDM2 antibody
Immunohistochemical analysis of RIZ1 in adenovirus-transduced tumor cells. Established HCT116 xenograft tumors at day 2 after infection of AdRIZ1, Adnull, or buffer alone were processed for RIZ1 in situ detection (TUNEL) analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRDM2. It may not necessarily be applicable to this product.

NCBI GI #	55953110
NCBI GeneID	7799
NCBI Accession #	NP_001007258.1
UniProt Primary Accession #	Q13029
UniProt Secondary Accession #	Q13149; Q14550; Q5THJ1; Q5VUL9; B1AJZ4; B5MC68
UniProt Related Accession #	Q13029
GenBank Nucleotide #	NM_015866
NCBI Official Full Name	PR domain zinc finger protein 2 isoform c
NCBI Official Synonym Full Names	PR/SET domain 2
NCBI Official Symbol	PRDM2
NCBI Official Synonym Symbols	RIZ; KMT8; RIZ1; RIZ2; KMT8A; MTB-ZF; HUMHOXY1
UniProt Protein Name	PR domain zinc finger protein 2
UniProt Synonym Protein Names	GATA-3-binding protein G3B; Lysine N-methyltransferase 8; MTB-ZF; MTE-binding protein; PR domain-containing protein 2; Retinoblastoma protein-interacting zinc finger protein; Zinc finger protein RIZ
Protein Family	PR domain zinc finger protein
UniProt Gene Name	PRDM2
UniProt Synonym Gene Names	KMT8; RIZ

NCBI Protein Information	PR domain zinc finger protein 2
NCBI Summary for PRDM2	This tumor suppressor gene is a member of a nuclear histone/protein methyltransferase superfamily. It encodes a zinc finger protein that can bind to retinoblastoma protein, estrogen receptor, and the TPA-responsive element (MTE) of the heme-oxygenase-1 gene. Although the functions of this protein have not been fully characterized, it may (1) play a role in transcriptional regulation during neuronal differentiation and pathogenesis of retinoblastoma, (2) act as a transcriptional activator of the heme-oxygenase-1 gene, and (3) be a specific effector of estrogen action. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]
UniProt Comments for PRDM2	PRDM2: S-adenosyl-L-methionine-dependent histone methyltransferase that specifically methylates 'Lys-9' of histone H3. May function as a DNA-binding transcription factor. Binds to the macrophage-specific TPA-responsive element (MTE) of the HMOX1 (heme oxygenase 1) gene and may act as a transcriptional activator of this gene. 3 isoforms of the human protein are produced by alternative splicing. Protein type: C2H2-type zinc finger protein; DNA-binding; EC 2.1.1.43; Methyltransferase; Methyltransferase, protein lysine; Nuclear receptor co-regulator; Transcription factor Chromosomal Location of Human Ortholog: 1p36.21 Cellular Component: Golgi apparatus; nucleus Molecular Function: DNA binding transcription factor activity; histone-lysine N-methyltransferase activity; zinc ion binding Biological Process: determination of adult lifespan; positive regulation of transcription from RNA polymerase II promoter; regulation of transcription, DNA-templated; transcription from RNA polymerase II promoter
Research Articles on PRDM2	**1.** the Pro704 p-/- allele of RIZ is significantly more common in CML patients with Loss of hematological response than good responders (p = .001). We showed that LOH p-/- homozygosity of RIZ1 was common event in BC than proline p+/+ homozygosity and proline p+/+ homozygosity more common feature in CP phase CML.
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