PRDM14 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PRDM14, Polyclonal Antibody
Full Product Name	PRDM14, NT (PR Domain Zinc Finger Protein 14, PR Domain-containing Protein 14) (MaxLight 490)
Product Gene Name	anti-PRDM14 antibody
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 MaxLight490.
Purity/Purification	Purified by affinity chromatography.
Specificity	Recognizes human PRDM14. Species Crossreactivity: Mouse and rat.
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: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	64kDa
OMIM	AF319458 mRNA
3D Structure	ModBase 3D Structure for Q9GZV8
Immunogen	Recombinant protein corresponding to the N-terminus of human PRDM14, fused to GST-Tag.
Conjugate	MaxLight490
Positive Control	Human lung tissue lysate
Note	Preservative Free
Product Categories/Family for anti-PRDM14 antibody	Antibodies; Transcription Factors; Zinc (Ring) Finger
Applications Tested/Suitable for anti-PRDM14 antibody	Western Blot (WB)
Application Notes for anti-PRDM14 antibody	WB: 1:1000 Applications are based on unconjugated antibody.
Related Product Information for anti-PRDM14 antibody	MBS6270029 is an antibody targeting PRDM14. Also known as PRDM14, NT (PR Domain Zinc Finger Protein 14, PR Domain-containing Protein 14) (MaxLight 490). Reactive in Human, Mouse, Rat. Host: Rabbit.
Product References and Citations for anti-PRDM14 antibody	1. Dettman, E.J., et al. (2011). Oncogene. 30(25):2859-2873. 2. Liu, B., et al. (2010). Zhongguo Fei Ai Za Zhi. 13(9):867-872. 3. Tsuneyoshi, N., et al. (2008). Biochem Biophys Res Commun. 367(4):899-905. 4. Nishikawa, N., et al. (2007). Cancer Res. 67(20):9649-9657.
Other Notes	Small volumes of anti-PRDM14 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRDM14. It may not necessarily be applicable to this product.

NCBI GI #	13375636
NCBI GeneID	63978
NCBI Accession #	NP_078780
UniProt Primary Accession #	Q9GZV8
UniProt Related Accession #	Q9GZV8
GenBank Nucleotide #	NM_024504
NCBI Official Full Name	PR domain zinc finger protein 14
NCBI Official Synonym Full Names	PR/SET domain 14
NCBI Official Symbol	PRDM14
NCBI Official Synonym Symbols	PFM11
UniProt Protein Name	PR domain zinc finger protein 14
UniProt Synonym Protein Names	PR domain-containing protein 14
Protein Family	PR domain zinc finger protein
UniProt Gene Name	PRDM14
NCBI Protein Information	PR domain zinc finger protein 14
NCBI Summary for PRDM14	This gene encodes a member of the PRDI-BF1 and RIZ homology domain containing (PRDM) family of transcriptional regulators. The encoded protein may possess histone methyltransferase activity and plays a critical role in cell pluripotency by suppressing the expression of differentiation marker genes. Expression of this gene may play a role in breast cancer. [provided by RefSeq, Dec 2011]
UniProt Comments for PRDM14	PRDM14: a probable protein lysine methyltransferase that works in concert with the core human embryonic stem cell (ESC) regulators to control pluripotency associated genes. Binds to silenced genes in human ESCs. Its binding profile is enriched for the repressive tri-methylation of histone H3 lysine 27 (H3K27me3) modification. Interacts directly with the polycomb repressive complex 2 (PRC2). PRC2 is detected at PRDM14-bound loci in human ESCs. A probable transcriptional regulator of the krueppel C2H2-type zinc-finger protein family. Has both positive and negative roles on transcription. Required for the maintenance of emryonic stem cell identity and the reacquisition of pluripotency in somatic cells. May play an essential role in germ cell development at 2 levels: the reacquisition of potential pluripotency, including SOX2 up-regulation, and successful epigenetic reprogramming. Directly up-regulates the expression of pluripotency gene POU5F1 through its proximal enhancer. Binds to the DNA consensus sequence 5'-GGTC[TC]CTAA-3'. Protein type: C2H2-type zinc finger protein; Methyltransferase, protein arginine, predicted Chromosomal Location of Human Ortholog: 8q13.3 Cellular Component: nucleoplasm Molecular Function: chromatin DNA binding; metal ion binding; methyltransferase activity; protein binding; RNA binding Biological Process: cell fate specification; cell morphogenesis; embryo implantation; fertilization; germ cell development; germ-line stem cell maintenance; homeostasis of number of cells within a tissue; inner cell mass cell fate commitment; negative regulation of fibroblast growth factor receptor signaling pathway; negative regulation of transcription from RNA polymerase II promoter; positive regulation of flagellated sperm motility; somatic stem cell maintenance; transcription, DNA-dependent
Research Articles on PRDM14	**1.** Data show that elevated PRDM14 in PGCLCs causes proliferation and differentiation defects in the germline.

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