

PRDM14 Rabbit pAb

Catalog # AP100208

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9GZV8
Other Accession	Q9GZV8
Predicted	Rat, Pig, Human, Mouse, Rabbit, Zebrafish, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64062
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PRDM14
Epitope Specificity	361-460/571
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 6 C2H2-type zinc fingers. Contains 1 SET domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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]

Additional Information

Gene ID	63978
Other Names	PFM11; PRD14_HUMAN; PRDM14; PR domain-containing protein 14; 2.1.1.-; PRD14_MOUSE; PR/SET domain 14; PR domain containing 14; PR domain 14
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	PRDM14
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Function	Transcription factor that has both positive and negative roles on transcription. Required for the maintenance of embryonic 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, characterized by EHMT1 repression. Its association with CBFA2T2 is required for the functions in pluripotency and germ cell formation (By similarity). Directly up- regulates the expression of pluripotency gene POU5F1 through its proximal enhancer. Binds to the DNA consensus sequence 5'-GGTC[TC]CTAA- 3'.
Cellular Location	Nucleus.
Tissue Location	Expressed in embryonic stem cells. Tends to be overexpressed in breast cancer (at protein level)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.