10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PRDM14 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO2229a

Product Information

Application	WB, FC, E
Primary Accession	Q9GZV8
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	6H9F1
Isotype	IgG1
Calculated MW	64062
Description	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.
Immunogen	Purified recombinant fragment of human PRDM14 (AA: 4-203) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	63978
Other Names	PR domain zinc finger protein 14, 2.1.1.-, PR domain-containing protein 14, PRDM14
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PRDM14 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PRDM14
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)

References

1.Carcinogenesis. 2014 Nov;35(11):2611-8.2.Med Oncol. 2013;30(3):605.

Images