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PRDM14 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO2229a

Specification

PRDM14 Antibody - Product Information

Application	**E, WB, FC**
Primary Accession	Q9GZV8
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**64kDa KDa**

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

PRDM14 Antibody - Additional Information

Gene ID 63978

Other Names
PR domain zinc finger protein 14, 2.1.1.-, PR domain-containing protein 14, PRDM14

Dilution
E~~1/10000
WB~~1/500 - 1/2000
FC~~1/200 - 1/400

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.

PRDM14 Antibody - 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)

PRDM14 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture