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

PRDM14 (aa414-427) Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF3480a

Specification

PRDM14 (aa414-427) Antibody (internal region) - Product Information

Application	**E**
Primary Accession	Q9GZV8
Other Accession	NP_078780.1, 63978, 383491 (mouse), 100365184 (rat)
Predicted	**Human, Mouse, Rat, Pig, Dog, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**64062**

PRDM14 (aa414-427) Antibody (internal region) - Additional Information

Gene ID 63978

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

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

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 (aa414-427) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

PRDM14 (aa414-427) Antibody (internal region) - 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 (aa414-427) Antibody (internal region) - 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

PRDM14 (aa414-427) Antibody (internal region) - Images

PRDM14 (aa414-427) Antibody (internal region) - References

A genome-wide RNAi screen reveals determinants of human embryonic stem cell identity. Chia NY, Chan YS, Feng B, Lu X, Orlov YL, Moreau D, Kumar P, Yang L, Jiang J, Lau MS, Huss M, Soh BS, Kraus P, Li P, Lufkin T, Lim B, Clarke ND, Bard F, Ng HH, Nature. 2010 Nov 11;468(7321):316-20.. PMID: 20953172