

Datasheet for ABIN388018

anti-PRDM14 antibody (N-Term)

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Overview

Quantity:	400 µL
Target:	PRDM14
Binding Specificity:	AA 1-30, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRDM14 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This PRDM14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human PRDM14.
Clone:	RB1405
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	PRDM14
Alternative Name:	PRDM14 (PFM11) (PRDM14 Products)

Target Details

Background: Similar to acetylation and phosphorylation, histone methylation at the N terminal tail has emerged as an important role in regulating chromatin dynamics and gene activity. Histone methylation occurs on arginine and lysine residues and is catalyzed by two families of proteins, the protein arginine methyltransferase family and the SET domain containing methyltransferase family. Five members have been identified in the arginine methyltransferase family. About 27 are grouped into the SET domain family, and another 17 make up the PR domain family that is related to the SET domain family. PRDM14 is part of a family of PR domain genes that are involved in tumorigenesis. It may function as a transcription factor.

Molecular Weight: 64062

Gene ID: 63978

NCBI Accession: [NP_078780](#)

UniProt: [Q9GZV8](#)

Application Details

Application Notes: IF: 1:10~50. WB: 1:1000. IHC-P: 1:50~100

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: 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.

Expiry Date: 6 months

Publications

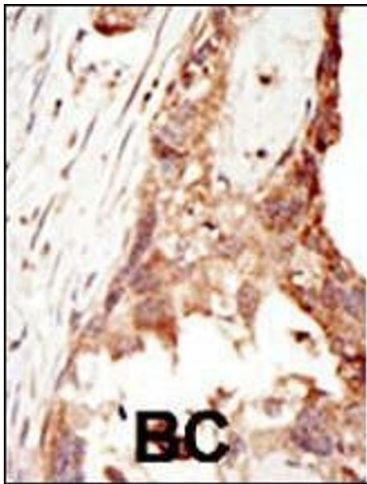
Product cited in: Xu, Wang, Chang, Du, Diao, Jiang, Wang, Ma, Zhang: "Mammalian sterile 20-like kinase 1/2 inhibits the Wnt/ β -catenin signalling pathway by directly binding casein kinase 1?." in: **The**

Biochemical journal, Vol. 458, Issue 1, pp. 159-69, (2014) ([PubMed](#)).

Rajyaguru, She, Parker: "Scd6 targets eIF4G to repress translation: RGG motif proteins as a class of eIF4G-binding proteins." in: **Molecular cell**, Vol. 45, Issue 2, pp. 244-54, (2012) ([PubMed](#)).

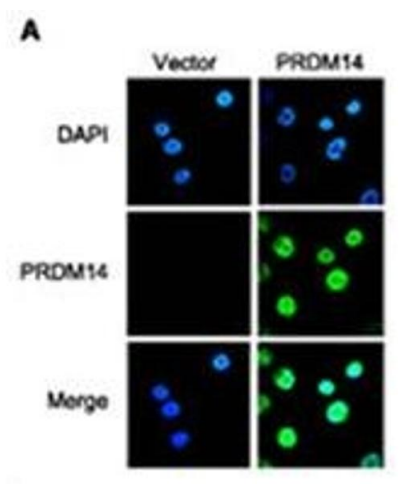
Nissan, Rajyaguru, She, Song, Parker: "Decapping activators in *Saccharomyces cerevisiae* act by multiple mechanisms." in: **Molecular cell**, Vol. 39, Issue 5, pp. 773-83, (2010) ([PubMed](#)).

Images



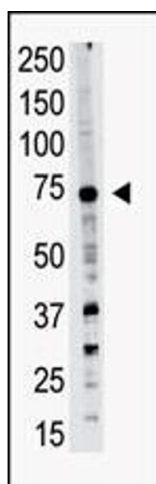
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.



Immunofluorescence

Image 2. IF analysis of PRDM14 in breast cancer cells. SKBr-3 cells were transfected with pCMV-Tag2A or pCMV-PRDM14 and then labeled with anti-PRDM14 antibody. The nucleus was stained with DI.



Western Blotting

Image 3. Western blot analysis of PRDM14 polyclonal antibody (ABIN388018 and ABIN2845429) in A549 cell lysate. PRDM14 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.