

Datasheet for ABIN387783

anti-PRDM2 antibody (AA 1-347)

4 Images

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Overview

Quantity:	400 µL
Target:	PRDM2
Binding Specificity:	AA 1-347
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PRDM2 antibody is un-conjugated
Application:	Western Blotting (WB), Chromatin Immunoprecipitation (ChIP)

Product Details

Immunogen:	Purified recombinant GST fusion protein encoding aa 1-347 of human RIZ1. This antibody is specific for RIZ1, it does not recognize the isoform beta (RIZ2).
Clone:	33AT1045
Isotype:	IgG1
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.

Target Details

Target:	PRDM2
Alternative Name:	PRDM2 (RIZ1) (PRDM2 Products)
Background:	This tumor suppressor gene is a member of a nuclear histone/protein methyltransferase

Target Details

superfamily. It encodes a zinc finger protein that can bind to retinoblastoma protein, estrogen receptor, and the TPA-responsive element (MTE) of the heme-oxygenase-1 gene. Although the functions of this protein have not been fully characterized, it may (1) play a role in transcriptional regulation during neuronal differentiation and pathogenesis of retinoblastoma, (2) act as a transcriptional activator of the heme-oxygenase-1 gene, and (3) be a specific effector of estrogen action. Multiple transcript variants encoding different isoforms have been found for this gene.

Molecular Weight: 188915

Gene ID: 7799

NCBI Accession: [NP_001007258](#), [NP_001129082](#), [NP_036363](#), [NP_056950](#)

UniProt: [Q13029](#)

Application Details

Application Notes: CHIP: 1:100. CHIP: 1:100. CHIP: 1:100. WB: 1:1000

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

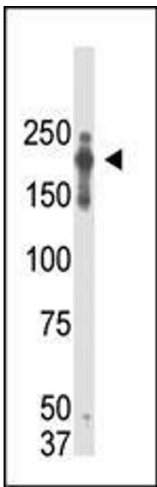
Publications

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 β ." 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](#)).

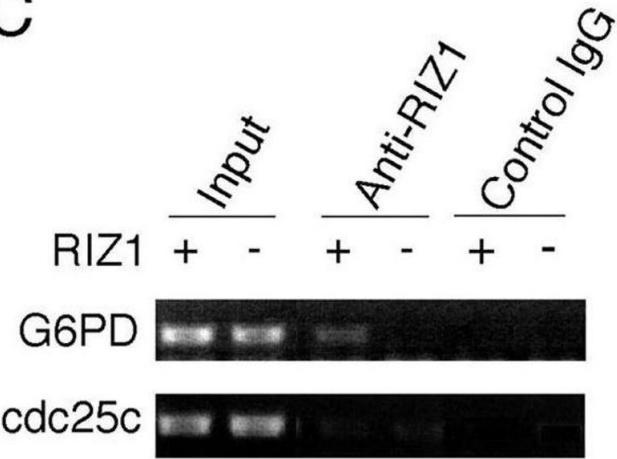
Images



Western Blotting

Image 1. Western blot analysis of anti-PRDM2 Mab (ABIN387783 and ABIN2838021) in lysate from PRDM2 transgenic lysate. Secondary HRP-anti-mouse was used for signal visualization with chemiluminescence.

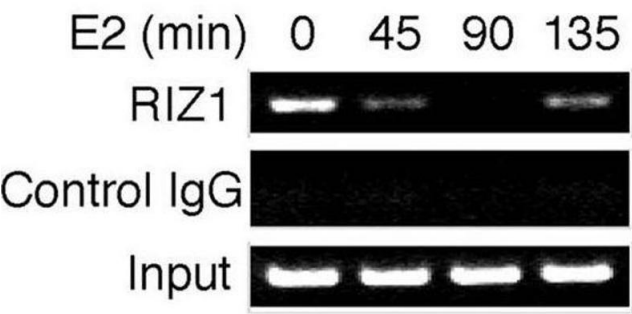
C



Chromatin Immunoprecipitation

Image 2. ChIP analysis of estrogen target genes. (C) ChIP analysis was performed on RIZ1 knockout mouse embryonic fibroblasts by using anti-RIZ1 antibody ((ABIN387783 and ABIN2838021)). Immunoprecipitated chromatin DNA was analyzed by PCR with primers in the G6pd promoter region and in the cdc25c promoter region. Adapted from Fig 6 in Carling et al., 2004 (see citation 2).

B



Chromatin Immunoprecipitation

Image 3. ChIP analysis of estrogen target genes.(B) Time course analysis of RIZ1 binding to the pS2 gene promoter. MCF7 cells treated with E2 for different periods of time, as indicated at the top of each lane, were processed for ChIP analysis. Immunoprecipitation was performed with antibody to RIZ1 ((ABIN387783 and ABIN2838021)) and control immunoglobulin G as indicated. Adapted from Fig 6 in Carling et al., 2004 (see citation 2).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN387783.