

## **PRDM12 Antibody**

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM1195a

# **Specification**

# **PRDM12 Antibody - Product Information**

Application WB,E
Primary Accession Q9H4Q4
Reactivity Human, Mouse
Host Mouse
Clonality Monoclonal
Isotype Mouse IgG1

# **PRDM12 Antibody - Additional Information**

**Gene ID** 59335

#### **Other Names**

PR domain zinc finger protein 12, 211-, PR domain-containing protein 12, PRDM12, PFM9

# Target/Specificity

This PRDM12 antibody was raised suing purified recombinant GST fusion protein encoding human PRDM12.

## **Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

#### **Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

#### **Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

## **Precautions**

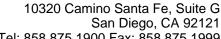
PRDM12 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

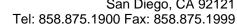
# **PRDM12 Antibody - Protein Information**

## Name PRDM12

# Synonyms PFM9

**Function** Transcriptional regulator necessary for the development of nociceptive neurons, playing a key role in determining the nociceptive lineage from neural crest cell progenitors. Initiates neurogenesis and activates downstream pro-neuronal transcription factors, such as NEUROD1,







BRN3A, and ISL1, specifically within nociceptive neurons, while repressing non-nociceptor cell fates. Essential for the proper function of nociceptors in adults, influencing both their excitability and their gene expression, thereby impacting how these neurons respond to various pain stimuli.

**Cellular Location** Nucleus.

#### **Tissue Location**

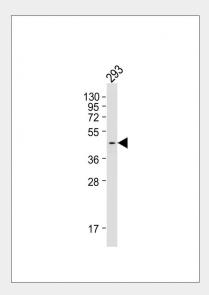
Not found in adult tissues except in dorsal root ganglia.

# PRDM12 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# PRDM12 Antibody - Images



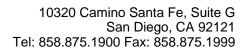
Anti-PRDM12 Antibody at 1:1000 dilution + 293 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 40 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

# PRDM12 Antibody - References

SET domains and histone methylation. Xiao B, et al. Curr Opin Struct Biol, 2003 Dec. PMID 14675547.

A potential role for PRDM12 in the pathogenesis of chronic myeloid leukaemia with derivative chromosome 9 deletion. Reid AG, et al. Leukemia, 2004 Jan. PMID 14523459.

The prototypical 4.1R-10-kDa domain and the 4.1q-10-kDa paralog mediate fodrin-actin complex formation. Kontrogianni-Konstantopoulos A, et al. J Biol Chem, 2001 Jun 8. PMID 11274145.





The yin-yang of PR-domain family genes in tumorigenesis. Jiang GL, et al. Histol Histopathol, 2000 Jan. PMID 10668202.