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PRDM12 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM1195a

Product Information

Application	WB, E
Primary Accession	Q9H4Q4
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	49AT1111.91.20
Calculated MW	40403

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~~1:500~1000 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.

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.

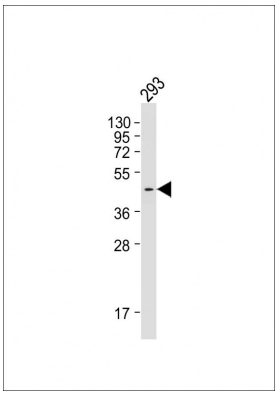
Cellular Location Nucleus.

Tissue Location Not found in adult tissues except in dorsal root ganglia.

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 4.1g-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.

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.