Datasheet for ABIN500533

anti-PRDM16 antibody (C-Term)

2 Images

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Overview

Quantity:	0.1 mg
Target:	PRDM16
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRDM16 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	PRDM16 antibody was raised against a 17 amino acid peptide from near the carboxy terminus of Human PRDM16.
Isotype:	IgG
Cross-Reactivity (Details):	Species reactivity (tested):Human, Mouse, Rat
Purification:	Peptide Affinity Chromatography

Target Details

Target:	PRDM16
Alternative Name:	PRDM16 (PRDM16 Products)

Target Details

Background:	PRDM16 is a zinc finger transcription factor and contains an N-terminal PR domain. The reciprocal translocation t(1,3)(p36,q21) occurs in a subset of myelodysplastic syndrome (MDS) and acute myeloid leukemia (AML). This gene is located near the 1p36.3 breakpoint and has been shown to be specifically expressed in the t(1:3)(p36,q21)-positive MDS/AML. The translocation results in the overexpression of a truncated version of this protein that lacks the PR domain, which may play an important role in the pathogenesis of MDS and AML. Recent studies have shown that PRDM16 normally acts as a Smad3 binding protein that may be important for the development of orofacial structures through modulation of the TGF-beta signaling pathway. Other experiments have indicated that PRDM16 controls a bidirectional cell fate switch between skeletal myoblasts and brown fat cells.Synonyms: KIAA1675, MDS1/EVI1-like gene 1, MEL1, PFM13, PR domain zinc finger protein 16, PR domain-containing protein 16, Transcription factor MEL1
Gene ID:	63976
UniProt:	Q9HAZ2
Pathways:	Stem Cell Maintenance, Brown Fat Cell Differentiation

Application Details

Application Notes:	ELISA. Western blot: 1-2 µg/mL. Immunohistochemistry on Paraffin Sections. Positive Control: Rat Brain Tissue Lysate. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

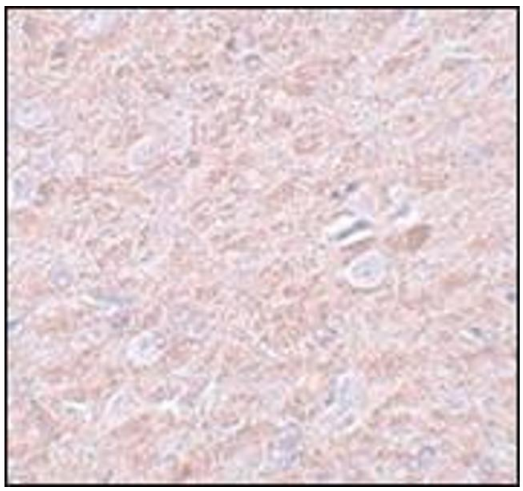
Handling

Concentration:	1.0 mg/mL
Buffer:	PBS containing 0.02 % 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.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	-20 °C

Handling

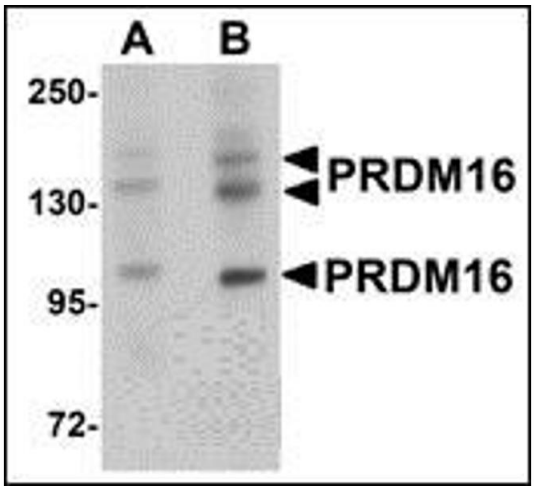
Storage Comment:	Upon receipt store the antibody (in aliquots) at -20 °C.

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of PRDM16 in rat brain tissue with AP30689PU-N PRDM16 antibody at 2.5 µg/ml.



Western Blotting

Image 2. Western blot analysis of PRDM16 in rat brain tissue lysate with AP30689PU-N PRDM16 antibody at (A) 1 and (B) 2 µg/ml.