Product Datasheet

PRDM16 Antibody

Catalog No: #25030

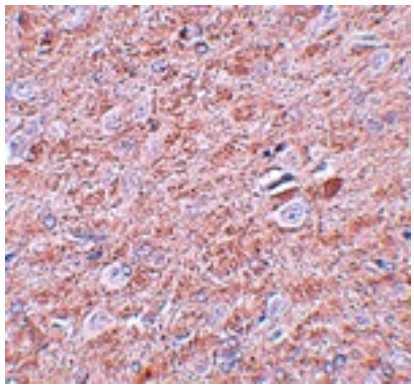
Package Size: #25030 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

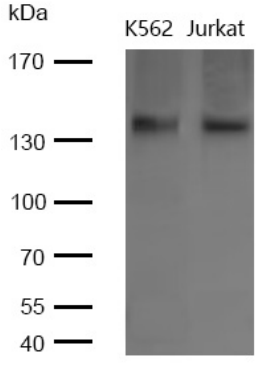
Description

Product Name	PRDM16 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB IHC
Species Reactivity	Human;Mouse
Immunogen Type	Peptide
Immunogen Description	Raised against a 17 amino acid peptide from near the carboxy terminus of human PRDM16.
Conjugates	Unconjugated
Target Name	PRDM16
Other Names	PR domain containing 16, MEL1, PFM13
Accession No.	Q9HAZ2
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Images



Immunohistochemistry of PRDM16 in rat brain tissue with PRDM16 antibody at 2.5 ug/mL.



Western blot analysis of PRDM16 in K562 cell lysate and Jurkat cell lysate with PRDM16 antibody .

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.

Published Papers

el at., Withaferin A Promotes White Adipose Browning and Prevents Obesity Through Sympathetic Nerve-Activated Prdm16-FATP1 Axis. In Diabetes on 2021 Nov 3 by Bingbing Guo, Jiarui Liu,et al..PMID:34732538, , (2021)

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.