

Anti-PRDM16 Antibody

Catalog Number: A00782

About PRDM16

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.

Overview

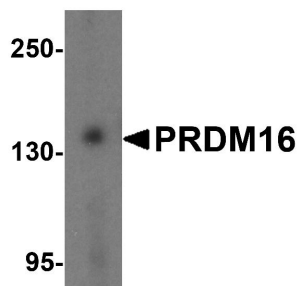
Product Name	Anti-PRDM16 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-PRDM16 Antibody (Catalog # A00782). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal Clone: SK7
Formulation	PRDM16 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	PRDM16 antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q9HAZ2

Technical Details

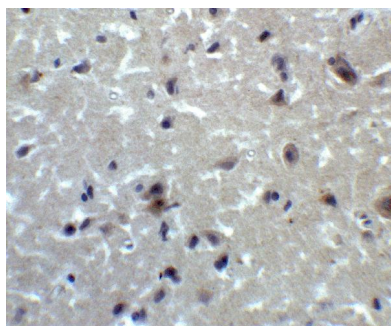
Immunogen	PRDM16 antibody was raised against a 17 amino acid synthetic peptide from near the carboxy terminus of human PRDM16. The immunogen is located within amino acids 1120 - 1170 of PRDM16.
Predicted Reactive Species	Chicken, Goat, Pig
Cross Reactivity	LAMP-1 antibody is predicted to not cross-react with LAMP-2. Due to extensive post-translational modification, LAMP-1 often migrates at higher than predicted molecular weight in SDS-PAGE.
Isotype	IgG
Form	Liquid

Concentration	1 mg/mL
Purification	PRDM16 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>PRDM16 antibody can be used for detection of PRDM16 by Western blot at 1 ug/mL. Antibody can also be used for immunohistochemistry starting at 2 ug/mL. For immunofluorescence start at 20 ug/mL.</p> <p>Antibody validated: Western Blot in human samples; Immunohistochemistry in human and mouse samples and Immunofluorescence in human and mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.</p>

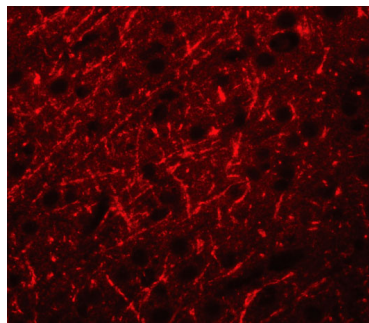
Anti-PRDM16 Antibody (A00782) Images



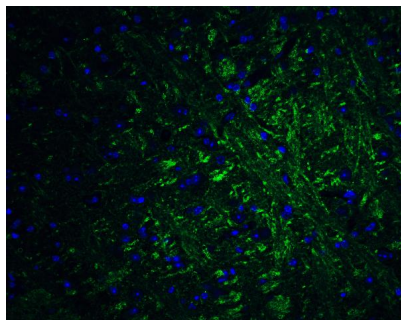
Western blot analysis of PRDM16 in K562 cell lysate with PRDM16 antibody at 1 ug/mL.



Immunohistochemistry of PRDM16 in human brain tissue with PRDM16 antibody at 2 ug/mL.



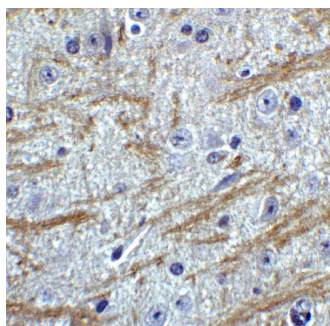
Immunofluorescence of PRDM16 in Human Brain cells with PRDM16 antibody at 20 ug/mL.



Immunofluorescence of PRDM16 in mouse brain tissue with PRDM16 antibody at 20 ug/mL.

Green: PRDM16 Antibody (A00782)
Blue: DAPI staining

Immunohistochemistry of PRDM16 in mouse brain tissue with PRDM16 antibody at 2 ug/mL.



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