Product Datasheet

PRDM16/MEL1 Antibody - BSA Free
NBP1-77096

Unit Size: 0.1 mg

Store at 4C.

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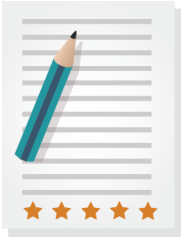
Publications: 8

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-77096

Updated 3/4/2026 v.20.1



NBP1-77096

PRDM16/MEL1 Antibody - BSA Free

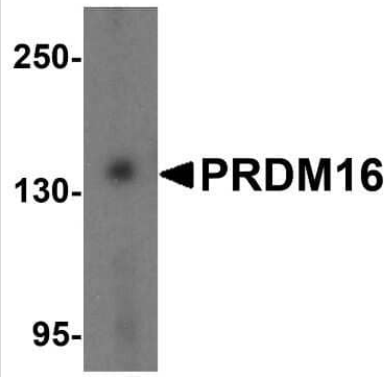
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	140 kDa

Product Description	
Host	Rabbit
Gene ID	63976
Gene Symbol	PRDM16
Species	Human, Mouse
Immunogen	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. Amino Acid Squence: AGKSQDDTVSPAPEPQA

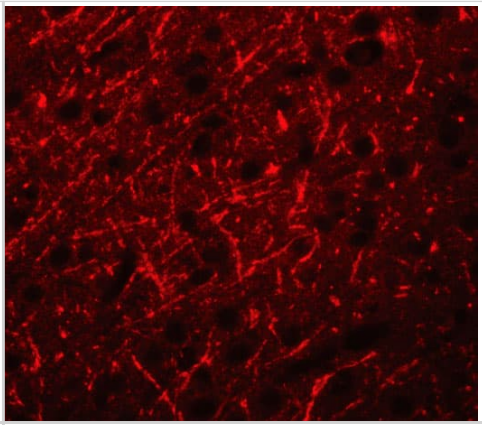
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunohistochemistry
Recommended Dilutions	Western Blot 1 ug/ml, ELISA 1:100-1:2000, Immunohistochemistry 2 ug/ml, Immunohistochemistry-Paraffin 2 ug/ml

Images

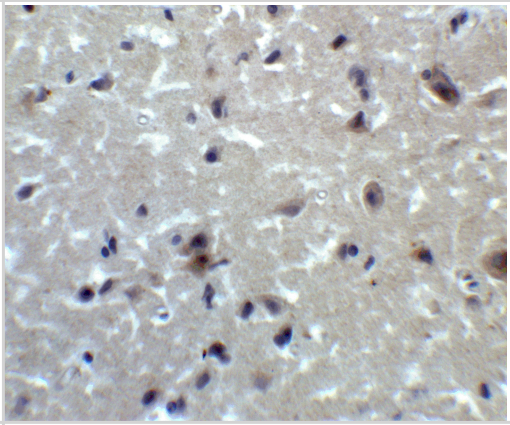
Western Blot: PRDM16/MEL1 Antibody [NBP1-77096] - Analysis of PRDM16 in K562 cell lysate with PRDM16 antibody at 1 ug/mL.



Immunocytochemistry/ Immunofluorescence: PRDM16/MEL1 Antibody - BSA Free [NBP1-77096] - Immunofluorescence of PRDM16/MEL1 in Human Brain cells with PRDM16/MEL1 antibody at 20 u/mL.

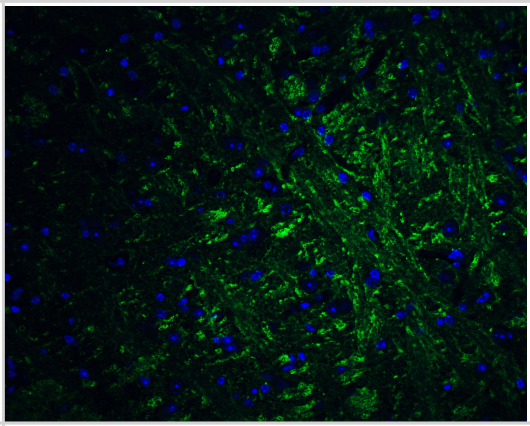


Immunohistochemistry: PRDM16/MEL1 Antibody - BSA Free [NBP1-77096] - Immunohistochemistry of PRDM16/MEL1 in human brain tissue with PRDM16/MEL1 antibody at 2 u/ml.

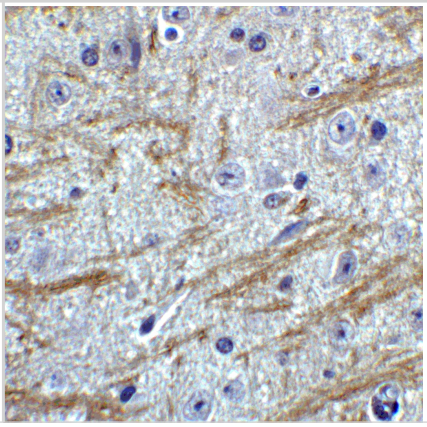


Immunocytochemistry/ Immunofluorescence: PRDM16/MEL1 Antibody - BSA Free [NBP1-77096] - Immunofluorescence of PRDM16/MEL1 in mouse brain tissue with PRDM16/MEL1 antibody at 20 u/ml.

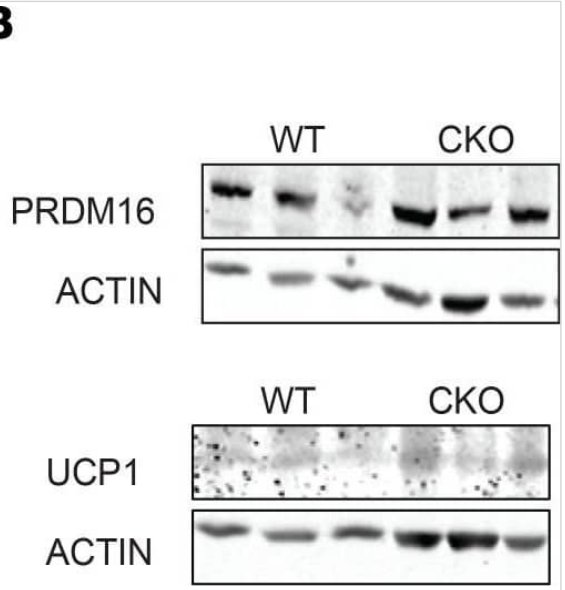
Green: PRDM16/MEL1 Antibody
Blue: DAPI staining



Immunohistochemistry: PRDM16/MEL1 Antibody - BSA Free [NBP1-77096] - Immunohistochemistry of PRDM16/MEL1 in mouse brain tissue with PRDM16/MEL1 antibody at 2 u/ml.



Loss of Blimp-1 expression by Tregs increases adipocyte beiging in WAT.Male Foxp3-YFP-Cre+ (WT) and Blimp-1fl/fl mice crossed to Foxp3-YFP-Cre+ (CKO) were placed on SFD and analyzed at 26–28 weeks of age. (A) Bar graphs showing relative mRNA expression of the indicated gene from total iWAT, VAT, and BAT from 26- to 28-week-old SFD-fed WT and CKO mice. Values were normalized to β-actin. (B) Western blots and bar graphs showing UCP1 and PRDM16 expression from total iWAT from SFD-fed WT and CKO mice. Each lane represents 1 biological replicate. β-Actin loading control is shown. (C) Graph showing Ucp1 mRNA expression from in vitro differentiated beige adipocyte cell lines and treated with IL-10 for 48 hours. Each dot represents a technical replicate and is representative of 2 independent experiments. (D) Graph indicating energy expenditure (EE) in kcal per hour by WT and CKO mice on SFD. (E) Bar graph indicating rectal temperature in WT and CKO mice. Data from A, D, and E are presented as means +/- SEM and are from 2–3 independent experiments with 3–16 mice, where each dot represents 1 mouse and an unpaired 2-tailed Student's t test or 1-way ANOVA was performed to determine significance. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/33351782), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Baskaran P, Nazminia K, Frantz J et al. Mice lacking endogenous TRPV1 express reduced levels of thermogenic proteins and are susceptible to diet-induced obesity and metabolic dysfunction FEBS letters 2021-05-11 [PMID: 33977527] (Western Blot, Mouse)

Cheng L, Shi L, He C et al. Mulberry leaf flavonoids activate BAT and induce browning of WAT to improve type 2 diabetes via regulating the AMPK/SIRT1/PGC-1? signaling pathway Chinese journal of natural medicines 2023-11-01 [PMID: 38035937]

Cheng L, Shi L, He C et al. Rutin-activated adipose tissue thermogenesis is correlated with increased intestinal short-chain fatty acid levels Phytotherapy research : PTR 2022-04-21 [PMID: 35445769]

Beppu L The role of Blimp-1 transcriptional regulator in adipose-resident Tregs Thesis 2021-01-01

Beppu LY, Mooli R, Qu X et al. Tregs facilitate obesity and insulin resistance via a Blimp-1-IL-10 axis JCI insight 2020-12-22 [PMID: 33351782] (WB, Mouse)

Meyers K, Lopez M, Ho J et al. Lipocalin-2 deficiency may predispose to the progression of spontaneous age-related adiposity in mice Sci Rep 2020-09-03 [PMID: 32883997]

Baskaran P, Covington K, Bennis J et al. Binding Efficacy and Thermogenic Efficiency of Pungent and Nonpungent Analogs of Capsaicin. Molecules 2018-12-04 [PMID: 30518154] (WB, Mouse)

Baskaran P, Krishnan V, Ren J, Thyagarajan B. Capsaicin Induces Browning of White Adipose Tissue and Counters Obesity by activating TRPV1 dependent mechanism. Br. J. Pharmacol. 2016-05-12 [PMID: 27174467] (WB, Mouse)

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Products Related to NBP1-77096

NBP1-77096PEP	PRDM16/MEL1 Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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