Datasheet for ABIN1881818

anti-SMARCD1 antibody (AA 309-335)

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Overview

Quantity:	400 µL
Target:	SMARCD1
Binding Specificity:	AA 309-335
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMARCD1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This Mouse Smarcd1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 309-335 amino acids from the Central region of mouse Smarcd1.
Clone:	RB40713
Isotype:	Ig Fraction
Predicted Reactivity:	B, H
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	SMARCD1
Alternative Name:	Smarcd1 (SMARCD1 Products)

Target Details

Background:	Smarcd1 is involved in chromatin remodeling. Has a strong influence on the Vitamin D-mediated transcriptional activity from an enhancer Vitamin D receptor element (VDRE). May be a link between mammalian SWI-SNF-like chromatin remodeling complexes and the vitamin D receptor (VDR) heterodimer. Mediates critical interactions between nuclear receptors and the BRG1/SMARCA4 chromatin-remodeling complex for transactivation. Also involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required for the ligand-bound VDR-mediated transrepression of the CYP27B1 gene (By similarity). Belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuron-specific chromatin remodeling complex (nBAF complex). During neural development a switch from a stem/progenitor to a post-mitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to post-mitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron-specific complexes (nBAF). The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth.
Molecular Weight:	58245
NCBI Accession:	NP_114030
UniProt:	Q61466

Application Details

Application Notes:	WB: 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

Publications

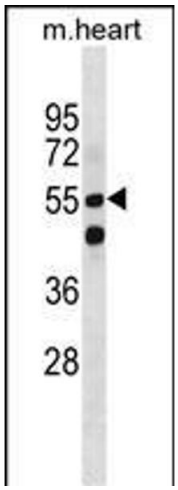
Product cited in:

Akpa, Oyejola: "Modeling the transmission dynamics of HIV/AIDS epidemics: an introduction and a review." in: **Journal of infection in developing countries**, Vol. 4, Issue 10, pp. 597-608, (2010) (PubMed).

Kladney, Cardiff, Kwiatkowski, Chiang, Weber, Arbeit, Lu: "Tuberous sclerosis complex 1: an epithelial tumor suppressor essential to prevent spontaneous prostate cancer in aged mice." in: **Cancer research**, Vol. 70, Issue 21, pp. 8937-47, (2010) (PubMed).

There are more publications referencing this product on: Product page

Images



Western Blotting

Image 1. Mouse Smarcd1 Antibody (Center) (ABIN1881818 and ABIN2850422) western blot analysis in mouse heart tissue lysates (35 µg/lane).This demonstrates the Mouse Smarcd1 antibody detected the Mouse Smarcd1 protein (arrow).