

Datasheet for ABIN1881818

anti-SMARCD1 antibody (AA 309-335)[Go to Product page](#)**1** Image**6** Publications

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:	<p>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.</p>
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Molecular Weight:	58245
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NCBI Accession:	NP_114030
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UniProt:	Q61466
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Application Details

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

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

should be handled by trained staff only.

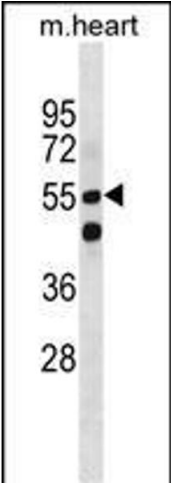
Storage: 4 °C,-20 °C

Expiry Date: 6 months

Publications

- Product cited in:
- Watanabe, Ui, Kanno, Ogiwara, Nagase, Kohno, Yasui: "SWI/SNF factors required for cellular resistance to DNA damage include ARID1A and ARID1B and show interdependent protein stability." in: **Cancer research**, Vol. 74, Issue 9, pp. 2465-75, (2014) ([PubMed](#)).
- Guo, Huss, Tong, Wang, Li Sun, Clarke, Robson: "Resolution of cell fate decisions revealed by single-cell gene expression analysis from zygote to blastocyst." in: **Developmental cell**, Vol. 18, Issue 4, pp. 675-85, (2010) ([PubMed](#)).
- Ho, Ronan, Wu, Staahl, Chen, Kuo, Lessard, Nesvizhskii, Ranish, Crabtree: "An embryonic stem cell chromatin remodeling complex, esBAF, is essential for embryonic stem cell self-renewal and pluripotency." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 106, Issue 13, pp. 5181-6, (2009) ([PubMed](#)).
- Li, Liu, Li, Hao, Han, Hill, Vidal, Lin: "Genome-wide coactivation analysis of PGC-1alpha identifies BAF60a as a regulator of hepatic lipid metabolism." in: **Cell metabolism**, Vol. 8, Issue 2, pp. 105-17, (2008) ([PubMed](#)).
- Oh, Sohn, Ko, Chung, Jeon, Seong: "BAF60a interacts with p53 to recruit the SWI/SNF complex." in: **The Journal of biological chemistry**, Vol. 283, Issue 18, pp. 11924-34, (2008) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



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).