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## Datasheet for ABIN7119638 **anti-SMARCD1 antibody**

### Overview

Quantity:	100 µg
Target:	SMARCD1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SMARCD1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

### Product Details

Immunogen:	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1
Clone:	1A7
Isotype:	IgG1
Purification:	Protein A+G purification
Purity:	≥95 % as determined by SDS-PAGE

### Target Details

Target:	SMARCD1
Alternative Name:	SMARCD1 ( <a href="#">SMARCD1 Products</a> )
Background:	Synonyms:BAF60A Background:Involved in chromatin remodeling. Belongs to the neural

## Target Details

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(By similarity). Has a strong influence on 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.

Molecular Weight:	58 kDa
Gene ID:	6602
UniProt:	<a href="#">Q96GM5</a>

## Application Details

Application Notes:	WB: 1:500-1:2000
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	-20°C for 12 months (Avoid repeated freeze / thaw cycles.)

## Handling

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Expiry Date: 12 months