

## anti- SMARCD1 antibody

### Product Information

Catalog No.:	FNab08010
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

### Background

Involved in chromatin remodeling. 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(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.

### Immunogen information

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### Wuhan Fine Biotech Co., Ltd.

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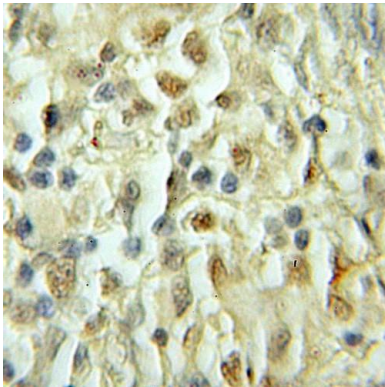
Fax: (0086)027-87800889 [www.fn-test.com](http://www.fn-test.com)

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Immunogen: SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1  
Synonyms: BAF60A  
Observed MW: 58 kDa  
UniprotID : Q96GM5

### Application

Reactivity: Human, Mouse, Rat  
Tested Application: ELISA, WB, IHC, IF, IP  
Recommended dilution: WB: 1:500-1:2000; IP: 1:200-1:1000; IHC: 1:20-1:200; IF: 1:20-1:200  
Image:



Immunohistochemistry of paraffin-embedded human lymphoma using FNab08010(SMARCD1 antibody) at dilution of 1:50

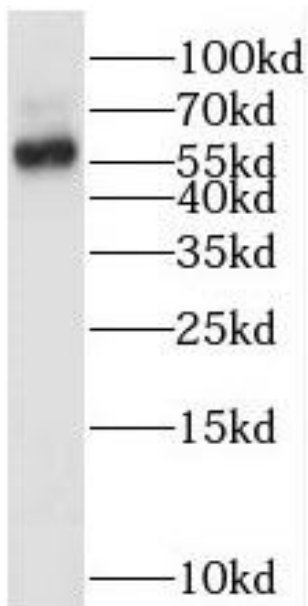
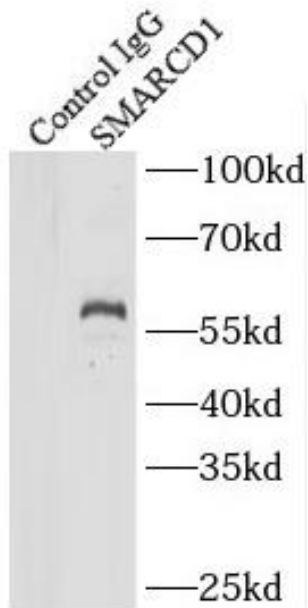
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IP Result of anti-SMARCD1 (IP:FNab08010, 3ug;  
Detection:FNab08010 1:600) with mouse brain  
tissue lysate 4000ug.



mouse brain tissue were subjected to SDS PAGE  
followed by western blot with  
FNab08010(SMARCD1 antibody) at dilution of  
1:600