

## Datasheet for ABIN686122 anti-SMARCA4 antibody (AA 51-167)

Publication



Overview

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Quantity:	100 µL
Target:	SMARCA4
Binding Specificity:	AA 51-167
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMARCA4 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS),
	Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded
	Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human of human SMARCA4/Transcription activator BRG1
lsotype:	lgG
Cross-Reactivity:	Human, Rat
Predicted Reactivity:	Mouse,Dog
Purification:	Purified by Protein A.
Target Details	
Target:	SMARCA4

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Target Details		
Alternative Name:	BRG-1/SMARCA4/SNF2 beta (SMARCA4 Products)	
Background:	Synonyms: BRG1, SNF2, SWI2, MRD16, RTPS2, BAF190, SNF2L4, SNF2LB, hSNF2b, BAF190A,	
	Transcription activator BRG1, ATP-dependent helicase SMARCA4, BRG1-associated factor	
	190A, Mitotic growth and transcription activator, Protein BRG-1, Protein brahma homolog 1,	
	SNF2-beta, SWI/SNF-related matrix-associated actin-dependent regulator of chromatin	
	subfamily A member 4, SMARCA4, SNF2B	
	Background: Transcriptional coactivator cooperating with nuclear hormone receptors to	
	potentiate transcriptional activation. Component of the CREST-BRG1 complex, a multiprotein	
	complex that regulates promoter activation by orchestrating a calcium-dependent release of a	
	repressor complex and a recruitment of an activator complex. In resting neurons, transcription	
	of the c-FOS promoter is inhibited by BRG1-dependent recruitment of a phospho-RB1-HDAC	
	repressor complex. Upon calcium influx, RB1 is dephosphorylated by calcineurin, which leads to	
	release of the repressor complex. At the same time, there is increased recruitment of CREBBP	
	to the promoter by a CREST-dependent mechanism, which leads to transcriptional activation.	
	The CREST-BRG1 complex also binds to the NR2B promoter, and activity-dependent induction	
	of NR2B expression involves a release of HDAC1 and recruitment of CREBBP. 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.	
Gene ID:	6597	
UniProt:	P51532	
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid	
	Hormone Receptor Signaling, Stem Cell Maintenance	
Application Details		

Application Notes:

ELISA 1:500-1000

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Restrictions:	For Research Use only
	IF(ICC) 1:50-200
	IF(IHC-F) 1:50-200
	IF(IHC-P) 1:50-200
	IHC-F 1:100-500
	IHC-P 1:200-400
	FCM 1:20-100

## Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months
Publications	

Product cited in:Chen, Han, Wei, Zhang, Shi, Duan, Li, Zhou, Pu, Zhang, Kang: "SNORD76, a box C/D snoRNA,<br/>acts as a tumor suppressor in glioblastoma." in: Scientific reports, Vol. 5, pp. 8588, (2015) (<br/>PubMed).