

Rabbit SMARCE1 Polyclonal Antibody | anti-SMARCE1 antibody

SMARCE1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327002	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

SMARCE1; Polyclonal Antibody; SMARCE1 Antibody; BAF57; BRG1 associated factor 57; BRG1-associated factor 57; Chromatin remodeling complex BRG1 associated factor 57; FLJ35648; SMARCE 1; SMCE1_HUMAN; SWI/SNF related matrix associated actin dependent regulator of chromatin e1; SWI/SNF related matrix associated actin dependent regulator of chromatin subfamily e member 1; SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily E member 1; anti-SMARCE1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SMARCE1 antibody detects endogenous levels of total SMARCE1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	411
Applicable Applications for anti-SMARCE1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SMARCE1
Subcellular Location	Nucleus.
Predicted Cross Reactivity	Pig, Horse, Sheep, Rabbit, Dog
Similarity	Pig (90%), Horse (100%), Sheep (90%), Rabbit (100%), Dog (90%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

AAA327002 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of Hela whole cell lysates, using SMARCE1 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SMARCE1 antibody	Description: The protein encoded by this gene is part of the large ATP-dependent chromatin remodeling complex SWI/SNF, which is required for transcriptional activation of genes normally repressed by chromatin. The encoded protein, either alone or when in the SWI/SNF complex, can bind to 4-way junction DNA, which is thought to mimic the topology of DNA as it enters or exits the nucleosome. The protein contains a DNA-binding HMG domain, but disruption of this domain does not abolish the DNA-binding or nucleosome-displacement activities of the SWI/SNF complex. Unlike most of the SWI/SNF complex proteins, this protein has no yeast counterpart. Function: Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Component of SWI/SNF chromatin remodeling complexes that carry out key enzymatic activities, changing chromatin structure by altering DNA-histone contacts within a nucleosome in an ATP-dependent manner. 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 postmitotic 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 postmitotic 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). Required for the coactivation of estrogen responsive promoters by SWI/SNF complexes and the SRC/p160 family of histone acetyltransferases (HATs). Also specifically interacts with the CoREST corepressor resulting in repression of neuronal specific gene promoters in non-neuronal cells. Subunit Structure: Component of the multiprotein chromatin-remodeling complexes SWI/SNF: SWI/SNF-A (BAF), SWI/SNF-B (PBAF) and related complexes. The canonical complex contains a catalytic subunit (either SMARCA4/BRG1/BAF190A or SMARCA2/BRM/BAF190B), and at least SMARCE1, ACTL6A/BAF53, SMARCC1/BAF155, SMARCC2/BAF170, and SMARCB1/SNF5/BAF47. Other subunits specific to each of the complexes may also be present permitting several possible combinations developmentally and tissue specific (PubMed:12672490, PubMed:22952240, PubMed:26601204). Component of the BAF complex, which includes at least actin (ACTB), ARID1A/BAF250A, ARID1B/BAF250B, SMARCA2/BRM/BAF190B, SMARCA4/BRG1/BAF190A, ACTL6A/BAF53, ACTL6B/BAF53B, SMARCE1/BAF57, SMARCC1/BAF155, SMARCC2/BAF170, SMARCB1/SNF5/INI1, and one or more SMARCD1/BAF60A, SMARCD2/BAF60B, or SMARCD3/BAF60C. In muscle cells, the BAF complex also contains DPF3 (PubMed:18765789). Component of neural progenitors-specific chromatin remodeling complex (npBAF complex) composed of at least, ARID1A/BAF250A or ARID1B/BAF250B, SMARCD1/BAF60A, SMARCD3/BAF60C, SMARCA2/BRM/BAF190B, SMARCA4/BRG1/BAF190A, SMARCB1/BAF47, SMARCC1/BAF155, SMARCE1/BAF57, SMARCC2/BAF170, PHF10/BAF45A, ACTL6A/BAF53A and actin. Component of neuron-specific chromatin remodeling complex (nBAF complex) composed of at least, ARID1A/BAF250A or ARID1B/BAF250B, SMARCD1/BAF60A, SMARCD3/BAF60C, SMARCA2/BRM/BAF190B, SMARCA4/BRG1/BAF190A, SMARCB1/BAF47, SMARCC1/BAF155, SMARCE1/BAF57, SMARCC2/BAF170, DPF1/BAF45B, DPF3/BAF45C, ACTL6B/BAF53B and actin. May be a component of the SWI/SNF-B (PBAF) chromatin remodeling complex, at least composed of SMARCA4/BRG1, SMARCB1/BAF47/SNF5, ACTL6A/BAF53A or ACTL6B/BAF53B, SMARCE1/BAF57, SMARCD1/BAF60A, SMARCD2/BAF60B, perhaps SMARCD3/BAF60C, SMARCC1/BAF155, SMARCC2/BAF170, PBRM1/BAF180, ARID2/BAF200 and actin (ACTB) (PubMed:22952240, PubMed:26601204). Interacts with BRDT (By similarity). Also binds to the SRC/p160 family of histone acetyltransferases (HATs) composed of NCOA1, NCOA2, and NCOA3. Interacts with RCOR1/CoREST, NR3C1 and ZMIM2/ZIMP7 (PubMed:12192000, PubMed:12917342, PubMed:16051670). Post-translational Modifications: Ubiquitinated by TRIP12, leading to its degradation by the proteasome. Ubiquitination is prevented upon interaction between TRIP12 and SMARCC1. Similarity: The HMG domain is essential for CD4 silencing and CD8 activation; mutation of this domain blocks thymus development.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21264355
NCBI GeneID	6605
NCBI Accession #	NP_003070.3
NCBI GenBank Nucleotide #	NM_003079.4
UniProt Accession #	Q969G3; O43539; B3KMC1; B4DFR4; C0IMW4; C0IMW5; C0IMW7; H7C3F6

Molecular Weight	Observed: 46 kDa Predicted: 47 kDa
NCBI Official Full Name	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily E member 1
NCBI Official Synonym Full Names	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1
NCBI Official Symbol	SMARCE1
NCBI Official Synonym Symbols	CSS5; BAF57
NCBI Protein Information	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily E member 1
UniProt Protein Name	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily E member 1
UniProt Gene Name	SMARCE1
UniProt Synonym Gene Names	BAF57; BAF57

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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 Online datasheet: <https://stage.aaabiotech.com/polyclonal/smarce1-antibody-immunohistochemistry-western-blot-elisa/327002>