

Rabbit anti-Human SMARCE1 Polyclonal Antibody | anti-SMARCE1 antibody

Anti-SMARCE1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254458	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

SMARCE1; Polyclonal Antibody; Anti-SMARCE1 Antibody; Rabbit Polyclonal; SMARCE1 Antibody; Rabbit PAb; Antigen Affinity Purified; SWI/SNF related; matrix associated; actin dependent regulator of chromatin; subfamily e; member 1; Anti-BAF57 Antibody; anti-SMARCE1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human SMARCE1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-SMARCE1 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the C-terminus of the Human SMARCE1
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the C-terminus of the Human SMARCE1, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

SMARCE1 was immunoprecipitated using: Lane A: 0.5 mg Jurkat Whole Cell Lysate 4 uL anti-SMARCE1 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-SMARCE1 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Clean-Blot IP Detection Reagent (HRP) at 1:1000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 47 kDa. Observed band size: 54 kDa.



IF (Immunofluorescence)

Immunofluorescence staining of SMARCE1 in U2OS cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human SMARCE1 polyclonal antibody (dilution ratio 1:500) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Nucleus.



WB (Western Blot)

Anti-SMARCE1 rabbit polyclonal antibody at 1:500 dilution
Lane A: MCF-7 Whole Cell Lysate
Lane B: HeLa Whole Cell Lysate
Lane C: Jurkat Whole Cell Lysate
Lane D: Raji Whole Cell Lysate
Lysates/proteins at 30 ug per lane.
Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.
Developed using the ECL technique.
Performed under reducing conditions.
Predicted band size: 47 kDa
Observed band size: 54 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-SMARCE1 antibody	The SMARCE1 (SWI/SNF-related, matrix-associated, and actin-dependent regulator of chromatin, subfamily e, member 1) encodes BAF57 protein. BAF57 is involved in ovarian cancer cell growth and sensitivity to anticancer agents, and that BAF57 may be a target for ovarian cancer therapy. SMARCE1 plays an essential role in breast cancer metastasis by protecting cells against anoikis through the HIF1A/PTK2 pathway. SMARCE1-mediated PTK2 activation likely plays a key role in promoting metastasis of basal-like and luminal B subtypes of breast tumors. BAF57/SMARCE1 is a BAF complex subunit encoded in animals by a single gene and is a component of all mammalian BAF complexes. In vivo, the loss of SMARCE1 would lead to the formation of deficient combinations of the complex which might present limited remodeling activities.
References	Yamaguchi T, et al. (2015) Expression of baf57 in ovarian cancer cells and drug sensitivity. Cancer Sci 106 (4): 359-366. Sethuraman A, et al. (2016) Smarce1 regulates metastatic potential of breast cancer cells through the hif1a/ptk2 pathway. Breast Cancer Res 18 (1): 81. Castillo-Robles J, et al. (2018) Smarce1 mutants have a defective endocardium and an increased expression of cardiac transcription factors in zebrafish. Sci Rep 8 (1): 15369.

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
Molecular Weight	411
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	BAF57
NCBI Protein Information	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily E member 1; BRG1-associated factor 57; chromatin remodeling complex BRG1-associated factor 57; SWI/SNF-related matrix-associated actin-dependent regulator of chromatin e1
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
UniProt Entry Name	SMCE1_HUMAN

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