

Rabbit anti-Human SMARCA2 Polyclonal Antibody | anti-SMARCA2 antibody

Anti-SMARCA2 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA256603	Rabbit	Human	Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

SMARCA2; Polyclonal Antibody; Anti-SMARCA2 Antibody; Rabbit Polyclonal; SMARCA2 Antibody; Rabbit PAb; Antigen Affinity Purified; SWI/SNF related; matrix associated; actin dependent regulator of chromatin; subfamily a; member 2; Anti-BAF190 Antibody; Anti-BRM Antibody; Anti-hBRM Antibody; Anti-hSNF2a Antibody; Anti-NCBRS Antibody; Anti-SNF2 Antibody; Anti-SNF2L2 Antibody; Anti-SNF2LA Antibody; Anti-Sth1p Antibody; Anti-SWI2 Antibody; anti-SMARCA2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human SMARCA2
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-SMARCA2 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human SMARCA2 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human SMARCA2 fragment, 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



IF (Immunofluorescence)

Immunofluorescence staining of SMARCA2 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 SMARCA2 polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to Nucleus.



IHC (Immunohistochemistry)

Immunochemical staining of human SMARCA2 in human brain with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-SMARCA2 rabbit polyclonal antibody at 1:500 dilution Lane A: HeLa 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: 181 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-SMARCA2 antibody	SWI/SNF-related, matrix-associated, actin-dependent regulator of chromatin subfamily A member 2 (SMARCA2), also known as Brahma homolog (BRM), is an Snf2-family DNA-dependent ATPase. BRM and its close homolog Brahma-related gene 1 (BRG1), also known as SMARCA4, are mutually exclusive ATPases of the large ATP-dependent SWI/SNF chromatin-remodeling complexes involved in transcriptional regulation of gene expression. SMARCA2 is a multi-domain protein containing a bromodomain (BRD) that specifically recognizes acetylated lysine residues in histone tails, thus playing an important role in chromatin remodeling. Polymorphisms in SMARCA2, associated with the disease, produce changes in the expression of the gene and/or in the encoded amino acid sequence. Nontruncating variants in SMARCA2, encoding a catalytic subunit of SWI/SNF chromatin remodeling complex, cause Nicolaides-Baraitser syndrome (NCBRS), a condition with intellectual disability and multiple congenital anomalies.
References	Papillon JPN, et al. (2018) Discovery of orally active inhibitors of brahma homolog (brm)/smarca2 atpase activity for the treatment of brahma related gene 1 (brg1)/smarca4-mutant cancers. J Med Chem 61 (22): 10155-10172. Lu T, et al. (2018) Identification of small molecule inhibitors targeting the smarca2 bromodomain from a high-throughput screening assay. Acta Pharmacol Sin 39 (9): 1544-1552. Loe-Mie Y, et al. (2010) Smarca2 and other genome-wide supported schizophrenia-associated genes: Regulation by rest/nrsf, network organization and primate-specific evolution. Hum Mol Genet 19 (14): 2841-2857. Cappuccio G, et al. (2020) De novo smarca2 variants clustered outside the helicase domain cause a new recognizable syndrome with intellectual disability and blepharophimosis distinct from nicolaides-baraitser syndrome. Genet Med 22 (11): 1838-1850.

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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