Rat anti-Human SMARCA4 Monoclonal Antibody | anti-SMARCA4 antibody

SMARCA4 antibody | 5B7

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50444	**Rat**	**Human**	**Western Blot, Immunofluorescence**

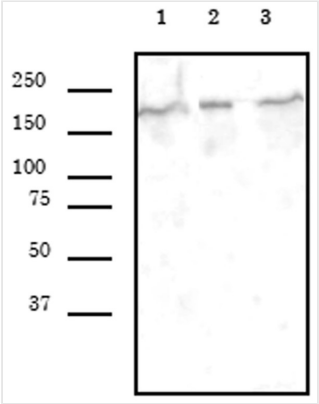
PRODUCT SYNONYMS

SMARCA4; Monoclonal Antibody; SMARCA4 antibody | 5B7; RAT ANTI HUMAN SMARCA4; anti-SMARCA4 antibody

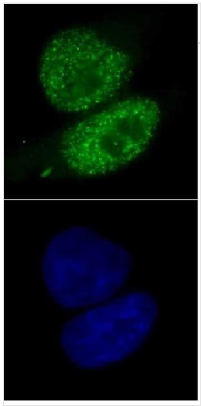
PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	5B7
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Form/Format	Purified IgG - liquid Phosphate buffered saline 0.035% Sodium Azide (NaN3), 30% Glycerol
Concentration	IgG concentration 1.0mg/ml (varies by lot)
Applicable Applications for anti-SMARCA4 antibody	WB (Western Blot), IF (Immunofluorescence)
Species Cross-Reactivity	Mouse: Yes; Monkey:Yes
Immunogen	A recombinant protein corresponding to amino acids 213-295 of human SMARCA4
Preparation and Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20 degree C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8 degree C for short term use (up to 4 weeks) and store the remaining aliquots at -20 degree C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. Should this product contain a precipitate we recommend microcentrifugation before use.

IMAGES



WB (Western Blot)
Western blot analysis of L929 whole cell extract (lane 1), HeLa whole cell extract (lane 2) or Cos whole cell extract (lane 3) probed with SMARCA4 antibody, clone 5B7 (AAA50444).



IF (Immunofluorescence)
Immunofluorescence staining of HeLa cells probed with SMARCA4 antibody (AAA50444; top) and stained with Hoechst (bottom).

ADDITIONAL INFORMATION

Related Product Information for anti-SMARCA4 antibody	Rat anti Human SMARCA4 antibody, clone 5B7 recognizes special AT-rich sequence-binding protein 2, also known as transcription activator BRG1. SMARCA4 is a member of the SWI/SNF family of proteins. SWI/SNF proteins display ATPase and helicase activities and regulate gene transcription via chromatin remodelling. SMRCA4 is important for spermatogenesis and embryo development (Kim et al. 2012) (Zhang et al. 2011). SMARCA4 is also the most frequently mutated chromatin remodeling ATPase in cancer. Mutations in the SMARCA4 have been observed in many tumor subtypes including pancreatic cancers and some types of leukemia (Jones et al. 2012) (Shain et al. 2012) (Hodges et al. 2018) (Romero et al. 2012). Rat anti Human SMARCA4 antibody detects a band of 180 kDa.

NCBI AND UNIPROT INFORMATION

NCBI GI #	192807312
NCBI GeneID	6597
NCBI Accession #	NP_001122316.1
NCBI GenBank Nucleotide #	NM_001128844.1
UniProt Accession #	P51532; O95052; Q9HBD3; B1A8Z4; B1A8Z5; B1A8Z6; B1A8Z7; E9PBR8
Molecular Weight	1647
NCBI Official Full Name	transcription activator BRG1 isoform B
NCBI Official Synonym Full Names	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4
NCBI Official Symbol	SMARCA4
NCBI Official Synonym Symbols	BRG1; SNF2; SWI2; MRD16; RTPS2; BAF190; SNF2L4; SNF2LB; hSNF2b; BAF190A
NCBI Protein Information	transcription activator BRG1; SNF2-beta; SNF2-like 4; protein BRG-1; nuclear protein GRB1; brahma protein-like 1; BRM/SWI2-related gene 1; homeotic gene regulator; protein brahma homolog 1; BRG1-associated factor 190A; sucrose nonfermenting-like 4; ATP-de
UniProt Protein Name	Transcription activator BRG1
UniProt Gene Name	**SMARCA4**
UniProt Synonym Gene Names	BAF190A; BRG1; SNF2B; SNF2L4; BAF190A
UniProt Entry Name	SMCA4_HUMAN

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://www.aaabiotech.com/monoclonal/smarca4-antibody-clone-5b7-western-blot-immunofluorescence-elisa/50444