

Rabbit SMARCA5 Polyclonal Antibody | anti-SMARCA5 antibody

SMARCA5 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326508	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

SMARCA5; Polyclonal Antibody; SMARCA5 Antibody; 4933427E24Rik; D030040M08Rik; D330027N15Rik; EC 3.6.1.-; hISWI; hSNF2H; ISWI; MommeD4; SMCA5_HUMAN; Snf2h; Sucrose nonfermenting like 5; Sucrose nonfermenting protein 2 homolog; Sucrose nonfermenting; yeast; homolog of; SWI/SNF related; matrix associated; actin dependent regulator of chromatin; subfamily a; member 5; SWI/SNF-related matrix-associated actin-dependent regulator of chromatin A5; SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 5; WCRF135; anti-SMARCA5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SMARCA5 antibody detects endogenous levels of total SMARCA5
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	1052
Applicable Applications for anti-SMARCA5 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SMARCA5
Subcellular Location	Nucleus.
Tissue Specificity	Ubiquitously expressed.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

AAA326508 at 1/100 staining Human breast cancer 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 SMARCA5 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SMARCA5 antibody

Description: The protein encoded by this gene is a member of the SWI/SNF family of proteins. Members of this family have helicase and ATPase activities and are thought to regulate transcription of certain genes by altering the chromatin structure around those genes. The protein encoded by this gene is a component of the chromatin remodeling and spacing factor RSF, a facilitator of the transcription of class II genes by RNA polymerase II. The encoded protein is similar in sequence to the Drosophila ISWI chromatin remodeling protein.

Function: Helicase that possesses intrinsic ATP-dependent nucleosome-remodeling activity. Complexes containing SMARCA5 are capable of forming ordered nucleosome arrays on chromatin; this may require intact histone H4 tails. Also required for replication of pericentric heterochromatin in S-phase specifically in conjunction with BAZ1A. Probably plays a role in repression of polI dependent transcription of the rDNA locus, through the recruitment of the SIN3/HDAC1 corepressor complex to the rDNA promoter. Essential component of the WICH complex, a chromatin remodeling complex that mobilizes nucleosomes and reconfigures irregular chromatin to a regular nucleosomal array structure. The WICH complex regulates the transcription of various genes, has a role in RNA polymerase I and RNA polymerase III transcription, mediates the histone H2AX phosphorylation at 'Tyr-142', and is involved in the maintenance of chromatin structures during DNA replication processes. Essential component of the NoRC (nucleolar remodeling complex) complex, a complex that mediates silencing of a fraction of rDNA by recruiting histone-modifying enzymes and DNA methyltransferases, leading to heterochromatin formation and transcriptional silencing.

Subunit Structure: Catalytic subunit of the four known chromatin-remodeling complexes: CHRAC, RSF, ACF/WCRF, and WICH. Each complex contains subunits which may regulate the specificity or catalytic activity of SMARCA5. ACF/WCRF contains BAZ1A; CHRAC contains BAZ1A, CHRAC1, and POLE3; RSF contains RSF1; WICH contains BAZ1B/WSTF. SMARCA5 is the catalytic subunit of the NoRC chromatin-remodeling complex, which also contains BAZ2A/TIP5. The BAZ2A/TIP5 subunit of NoRC also interacts with DNMT1, DNMT3B and HDAC1, which allows NoRC to actively suppress rDNA transcription by a combination of nucleosome remodeling, histone deacetylation, and DNA methylation. Catalytic subunit of SMARCA5/cohesin/NuRD complexes. Component of the B-WICH complex, at least composed of SMARCA5/SNF2H, BAZ1B/WSTF, SF3B1, DEK, MYO1C, ERCC6, MYBBP1A and DDX21. Interacts with MYO1C (By similarity). Interacts with BEND3.

Similarity: Belongs to the SNF2/RAD54 helicase family. ISWI subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	325651836
NCBI GeneID	8467
NCBI Accession #	NP_003592.3
NCBI GenBank Nucleotide #	NM_003601.3
UniProt Accession #	O60264
Molecular Weight	Observed: 122 kDa Predicted: 122 kDa
NCBI Official Full Name	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 5
NCBI Official Synonym Full Names	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5
NCBI Official Symbol	SMARCA5
NCBI Official Synonym Symbols	ISWI; SNF2H; hISWI; hSNF2H; WCRF135

NCBI Protein Information	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 5
UniProt Protein Name	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 5
UniProt Gene Name	SMARCA5
UniProt Synonym Gene Names	SNF2H; WCRF135; SWI/SNF-related matrix-associated actin-dependent regulator of chromatin A5; hSNF2H

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/smarca5-antibody-immunohistochemistry-western-blot-elisa/326508>