



Anti-SMARCA5 (aa 1-1052) polyclonal antibody (DPABH-07350)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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 pol 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.
Immunogen	Full length protein corresponding to amino acids 1-1052 of Human SNF2H (AAH23144.1).
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Purification	Protein A purified
Conjugate	Unconjugated
Applications	WB, ICC/IF
Format	Liquid

Size	50 µg
Buffer	pH: 7.20; Constituent: 99% PBS
Preservative	None
Storage	Store at 4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	SMARCA5 SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 6 [Homo sapiens]
Official Symbol	SMARCA5
Synonyms	SMARCA5; SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5; ISWI; SNF2H; hISWI; hSNF2H; WCRF135; SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 5; sucrose nonfermenting-like 5; sucrose nonfermenting protein 2 homolog; SWI/SNF-related matrix-associated actin-dependent regulator of chromatin A5;
Entrez Gene ID	8467
Protein Refseq	NP_003592.3
UniProt ID	O60264
Pathway	Cell Cycle; Deposition of new CENPA-containing nucleosomes at the centromere; Gene Expression; NoRC negatively regulates rRNA expression
Function	ATP binding; ATPase activity; DNA binding; helicase activity