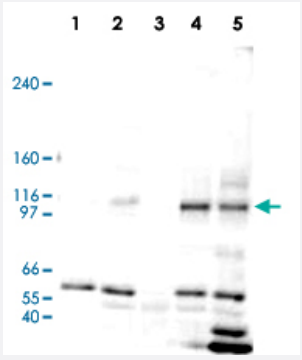
SMARCAL1 polyclonal antibody

Catalog # PAB10063 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot using SMARCAL1 polyclonal antibody (Cat # PAB10063) shows detection of a band ~106 KDa band (arrowhead) corresponding to SMARCAL1 in human derived cultured cell lysates (HeLa nuclear extract at lane 1, HeLa at lane 2, A-431 at lane 3, Jurkat at lane 4, and 293 at lane 5).
Approximately 5 ug of each lysates was run on a SDS-PAGE and transferred onto nitrocellulose followed by reaction with a 1:500 dilution of SMARCAL1 polyclonal antibody.
Signal was detected using standard techniques.
SMARCAL1 is the band seen between the 97 and 116kD markers.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of SMARCAL1.
Immunogen	A synthetic peptide corresponding to amino acids 80-96 of human SMARCAL1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:16000-1:64000) Western Blot (1:500-1:3000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH_2PO_4, 150 mM NaCl, pH 7.2 (0.01% sodium azide)

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Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Cell lysate)

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Gene Info — SMARCAL1

Entrez GeneID	50485
Protein Accession#	Q9NZC9;NP_003003
Gene Name	SMARCAL1
Gene Alias	HARP, HHARP
Gene Description	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a-like 1
Omim ID	242900 606622
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the SWI/SNF family of proteins. Members of thi s family have helicase and ATPase activities and are thought to regulate transcription of certain g enes by altering the chromatin structure around those genes. The encoded protein shows sequen ce similarity to the E. coli RNA polymerase-binding protein HepA. Mutations in this gene are a ca use of Schimke immunoosseous dysplasia (SIOD), an autosomal recessive disorder with the dia gnostic features of spondyloepiphyseal dysplasia, renal dysfunction, and T-cell immunodeficiency. [provided by RefSeq
Other Designations	HepA-related protein|OTTHUMP00000164057|SMARCA-like protein 1|SWI/SNF-related matrix-a ssociated actin-dependent regulator of chromatin a-like 1

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Publication Reference

- Mutant chromatin remodeling protein SMARCAL1 causes Schimke immuno-osseous dysplasia.

  Boerkoel CF, Takashima H, John J, Yan J, Stankiewicz P, Rosenbarker L, André JL, Bogdanovic R, Burguet A, Cockfield S, Cordeiro I, Fründ S, Illies F, Joseph M, Kaitila I, Lama G, Loirat C, McLeod DR, Milford DV, Petty EM, Rodrigo F, Saraiva JM, Schmidt B, Smith GC, Spranger J, Stein A, Thiele H, Tizard J, Weksberg R, Lupski JR, Stockton DW.

  Nature Genetics 2002 Feb; 30(2):215.

- Cloning and characterization of HARP/SMARCAL1: a prokaryotic HepA-related SNF2 helicase protein from human and mouse.

  Coleman MA, Eisen JA, Mohrenweiser HW.

  Genomics 2000 May; 65(3):274.

Disease

- Tobacco Use Disorder

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