ACTL6A/ACTL6B polyclonal antibody

Catalog # PAB6615 Size 100 ug

Applications



Western Blot (Cell lysate)

The ACTL6A/ACTL6B polyclonal antibody (Cat # PAB6615) staining (1 ug/mL) of HeLa lysate (RIPA buffer, 35 ug total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

Specification	
Product Description	Goat polyclonal antibody raised against synthetic peptide of ACTL6A/ACTL6B.
Immunogen	A synthetic peptide corresponding to human ACTL6A/ACTL6B.
Sequence	YEEGGKQCVERKCP
Host	Goat
Theoretical MW (kDa)	47.5, 43.2, 46.9
Reactivity	Human
Specificity	This antibody is expected to recognize both BAF53A and BAF53B, which are almost identical.
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.



Product Information

Recommend Usage	ELISA (1:64000) Western Blot (1-3 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	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

• Western Blot (Cell lysate)

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• Enzyme-linked Immunoabsorbent Assay

Gene Info — ACTL6A		
Entrez GenelD	<u>86</u>	
Protein Accession#	<u>NP_057272 (Gene ID : 51412);NP_004292 (Gene ID : 86)</u>	
Gene Name	ACTL6A	
Gene Alias	ACTL6, ARPN-BETA, Arp4, BAF53A, INO80K, MGC5382	
Gene Description	actin-like 6A	
Omim ID	<u>604958</u>	
Gene Ontology	Hyperlink	
Gene Summary	This gene encodes a family member of actin-related proteins (ARPs), which share significant ami no acid sequence identity to conventional actins. Both actins and ARPs have an actin fold, which i s an ATP-binding cleft, as a common feature. The ARPs are involved in diverse cellular processe s, including vesicular transport, spindle orientation, nuclear migration and chromatin remodeling. T his gene encodes a 53 kDa subunit protein of the BAF (BRG1/brm-associated factor) complex in mammals, which is functionally related to SWI/SNF complex in S. cerevisiae and Drosophila; the I atter is thought to facilitate transcriptional activation of specific genes by antagonizing chromatin-mediated transcriptional repression. Together with beta-actin, it is required for maximal ATPase activity of BRG1, and for the association of the BAF complex with chromatin/matrix. Three transcript variants that encode two different protein isoforms have been described. [provided by RefSeq	



Product Information

Other Designations

BAF complex 53 kDa subunit|BAF53|BRG1-associated factor|INO80 complex subunit K|actin-rela ted protein 4|hArpN beta

Gene Info — ACTL6B

Entrez GenelD	<u>51412</u>
Protein Accession#	<u>NP_057272 (Gene ID : 51412);NP_004292 (Gene ID : 86)</u>
Gene Name	ACTL6B
Gene Alias	ACTL6, BAF53B
Gene Description	actin-like 6B
Gene Ontology	<u>Hyperlink</u>
Gene Summary	The protein encoded by this gene is a member of a family of actin-related proteins (ARPs) which share significant amino acid sequence identity to conventional actins. Both actins and ARPs have an actin fold, which is an ATP-binding cleft, as a common feature. The ARPs are involved in diver se cellular processes, including vesicular transport, spindle orientation, nuclear migration and chr omatin remodeling. This gene encodes a subunit of the BAF (BRG1/brm-associated factor) comp lex in mammals, which is functionally related to SWI/SNF complex in S. cerevisiae and Drosophila ; the latter is thought to facilitate transcriptional activation of specific genes by antagonizing chrom atin-mediated transcriptional repression. This subunit may be involved in the regulation of genes b y structural modulation of their chromatin, specifically in the brain. [provided by RefSeq
Other Designations	53 kDa BRG1-associated factor Blactin-like 6lactin-related protein/hArpN alpha

Publication Reference

• <u>Two isoforms of a human actin-related protein show nuclear localization and mutually selective expression</u> between brain and other tissues.

Harata M, Mochizuki R, Mizuno S.

Bioscience, Biotechnology, and Biochemistry 1999 May; 63(5):917.

Disease

- <u>Cardiovascular Diseases</u>
- Diabetes Mellitus
- Edema