

Recombinant Full Length Human ACTL6A Protein, GST-tagged

Cat. No. ACTL6A-845HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human ACTL6A full-length ORF (NP_004292.1, 1 a.a. - 429 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	429 amino acids
Description	<p>This gene encodes a family member 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 diverse cellular processes, including vesicular transport, spindle orientation, nuclear migration and chromatin remodeling. This 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 <i>S. cerevisiae</i> and <i>Drosophila</i>; the latter 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, Jul 2008]</p>
Molecular Mass	73.9 kDa
AA Sequence	MSGGVYGGDE VGALVFDIGS YTVRAGYAGE DCPKVDFPTA IGMVVERDDG

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STLMEIDGDK GKQGGPTYI DTNALRVPRE NMEAISPLKN GMVEDWDSFQ
 AILDHTYKMH VKSEASLHPV LMSEAPWNTR AKREKLTLM FEHYNIPAFF
 LCKTAVLTAF ANGRSTGLIL DSGATHHTAI PVHDGYVLQQ GIVKSPLAGD
 FITMQCRELF QEMNIELVPP YMIASKEAVR EGSPANWKRK EKLPQVTRSW
 HNYMCNCVIQ DFQASVLQVS DSTYDEQVAA QMPTVHYEFP NGYNCDFGAE
 RLKIPEGLFD PSNVKGLSGN TMLGVSHVVT TSVGMCDDIDI RPGLYGSVIV
 AGGNTLIQSF TDRLNRELSQ KTPPSMRLKL IANNTTVERR FSSWIGGSIL
 ASLGTFQQMW ISKQEYEEGG KQCVERKCP

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	ACTL6A actin-like 6A [Homo sapiens]
Official Symbol	ACTL6A
Synonyms	ACTL6A; actin-like 6A; actin-like protein 6A; actin related protein 4; Actl6; Arp4; BAF complex 53 kDa subunit; BAF53A; Baf53a; BRG1 associated factor; INO80 complex subunit K; INO80K; BAF53; arpNbeta; hArpN beta; actin-related protein 4; BRG1-associated factor 53A; actin-related protein Baf53a; 53 kDa BRG1-associated factor A; ACTL6; ARPN-BETA
Gene ID	86

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mRNA Refseq	NM_004301
Protein Refseq	NP_004292
MIM	604958
UniProt ID	O96019

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