

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	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]
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 RPLYGVSIV
 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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