

Human ACTL6A Knockdown Cell Lysate

Cat. No. ACTL6A-024HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated ACTL6A Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
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.</p>
Form	Cell-Tissue Lysis buffer
Molecular Mass	47 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and

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knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.

Storage Store at -20 centigrade for two years.

Concentration Lot-specific

Shipping Blue Ice

Components 1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg ACTL6A KD HeLa cell lysate

Protein Families Druggable Genome, Transcription Factors

Lysate QC RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name [ACTL6A actin-like 6A \[Homo sapiens \(human\) \]](#)

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](#)

mRNA Refseq [NM_004301](#)

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Protein Refseq [NP_004292](#)

MIM [604958](#)

UniProt ID [O96019](#)

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