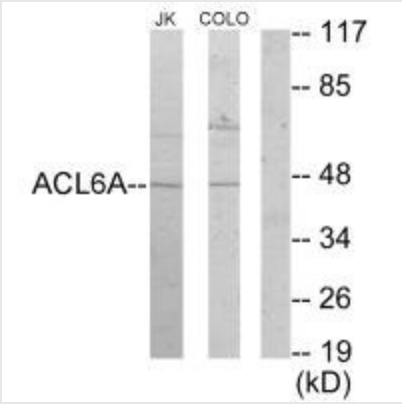
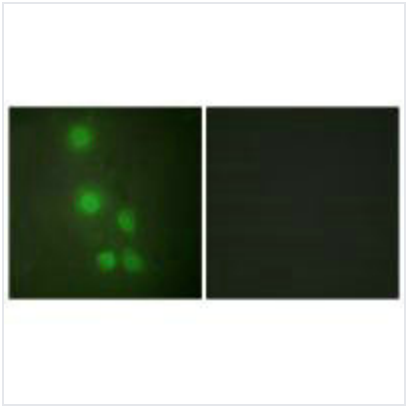
ACTL6A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ACTL6A, Polyclonal Antibody
Full Product Name	ACTL6A Antibody
Product Gene Name	anti-ACTL6A antibody
Product Synonym Names	ACTL6; ACTL6A; MGC5382; actin-like 6A
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid; Rabbit IgG In Phosphate Buffered Saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	47,461 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (179280708..179306193). Location: 3q26.33
OMIM	604958
3D Structure	ModBase 3D Structure for O96019
Immunogen	Synthesized peptide derived from internal of human ACL6A.
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-ACTL6A antibody	Epigenetics and Nuclear Signaling
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ACTL6A antibody	ELISA (EIA), Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-ACTL6A antibody	WB: 1:500-1:3000 IF: 1:100-1:500
Related Product Information for anti-ACTL6A antibody	MBS7132202 is an antibody targeting ACTL6A. Also known as ACTL6A Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-ACTL6A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-ACTL6A antibody
Western blot analysis of extracts from Jurkat cells and COLO205 cells, using ACL6A antibody.



Immunofluorescence (IF) of anti-ACTL6A antibody
Immunofluorescence analysis of HUVEC cells, using ACL6A antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACTL6A. It may not necessarily be applicable to this product.

NCBI GI #	4757718
NCBI GeneID	86
NCBI Accession #	NP_004292.1
UniProt Primary Accession #	O96019
UniProt Secondary Accession #	Q8TAE5; Q9BVS8; Q9H0W6; B3KMN1; D3DNR9
UniProt Related Accession #	O96019
GenBank Nucleotide #	NM_004301.3
NCBI Official Full Name	actin-like protein 6A isoform 1
NCBI Official Synonym Full Names	actin-like 6A
NCBI Official Symbol	ACTL6A
NCBI Official Synonym Symbols	Arp4; ACTL6; BAF53A; INO80K; ARPN-BETA
UniProt Protein Name	Actin-like protein 6A
UniProt Synonym Protein Names	53 kDa BRG1-associated factor A; Actin-related protein Baf53a; ArpNbeta; BRG1-associated factor 53A; BAF53A; INO80 complex subunit K
Protein Family	Actin-like protein
UniProt Gene Name	ACTL6A
UniProt Synonym Gene Names	BAF53; BAF53A; INO80K; BAF53A
UniProt Entry Name	ACL6A_HUMAN
NCBI Protein Information	actin-like protein 6A; BAF53; arpNbeta; hArpN beta; INO80 complex subunit K; actin-related protein 4; BAF complex 53 kDa subunit; BRG1-associated factor 53A; actin-related protein Baf53a; 53 kDa BRG1-associated factor A

NCBI Summary for ACTL6A	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 S. cerevisiae and Drosophila; 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]
UniProt Comments for ACTL6A	BAF53A: an actin-related protein involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Required for maximal ATPase activity of the helicase SMARCA4 and for association of the SMARCA4 containing remodelling complex BAF with chromatin/nuclear matrix. A component of the NuA4 histone acetyltransferase (HAT) complex which is involved in transcriptional activation of specific genes. Two alternatively spliced human isoforms have been described. Chromosomal Location of Human Ortholog: 3q26.33 Cellular Component: nucleoplasm; SWI/SNF complex; NuA4 histone acetyltransferase complex; protein complex; nuclear chromatin; plasma membrane; nucleus Molecular Function: protein binding; nucleosomal DNA binding; transcription coactivator activity; chromatin binding Biological Process: regulation of transcription from RNA polymerase II promoter; chromatin remodeling; nervous system development; establishment and/or maintenance of chromatin architecture; transcription, DNA-dependent; regulation of growth; ATP-dependent chromatin remodeling; signal transduction; DNA repair; DNA recombination
Research Articles on ACTL6A	**1.** The beta-actin-Arp4 complex formation might be a crucial feature in some chromatin-modifying enzyme complexes, such as the Brg1 complex.
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