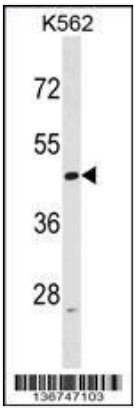
ACTL6A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ACTL6A, Polyclonal Antibody
Full Product Name	ACTL6A, NT (ACTL6A, BAF53, BAF53A, INO80K, Actin-like protein 6A, 53kD BRG1-associated factor A, Actin-related protein Baf53a, ArpNbeta, BRG1-associated factor 53A, INO80 complex subunit K) (APC)
Product Gene Name	anti-ACTL6A antibody
Product Synonym Names	ACTL6A; BAF53; BAF53A; INO80K; Actin-like protein 6A; 53kD BRG1-associated factor A; Actin-related protein Baf53a; ArpNbeta; BRG1-associated factor 53A; INO80 complex subunit K
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	604958
3D Structure	ModBase 3D Structure for O96019
Immunogen	ACTL6A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human ACTL6A.
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-ACTL6A antibody	Antibodies; Actin Related Proteins
Applications Tested/Suitable for anti-ACTL6A antibody	Western Blot (WB), FLISA
Application Notes for anti-ACTL6A antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ACTL6A antibody	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.

Product References and Citations for anti-ACTL6A antibody	Lamesch, P., et al. Genomics 89(3):307-315(2007). Olsen, J.V., et al. Cell 127(3):635-648(2006). Olsen, J.V., et al. Cell 127(3):635-648(2006). Cai, Y., et al. J. Biol. Chem. 280(14):13665-13670(2005). Doyon, Y., et al. Curr. Opin. Genet. Dev. 14(2):147-154(2004).
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.
Searchable Terms for ACTL6A purchase	MBS6271256 is an antibody targeting ACTL6A. Also known as ACTL6A, NT (ACTL6A, BAF53, BAF53A, INO80K, Actin-like protein 6A, 53kD BRG1-associated factor A, Actin-related protein Baf53a, ArpNbeta, BRG1-associated factor 53A, INO80 complex subunit K) (APC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ACTL6A antibody
ACTL6A Antibody (N-term) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the ACTL6A antibody detected the ACTL6A protein (arrow).

ADDITIONAL DETAILS

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

NCBI GI #	30089997
NCBI GeneID	86
NCBI Accession #	NP_817126.1
NCBI Related Accession #	NP_004292.1
UniProt Primary Accession #	O96019
UniProt Related Accession #	O96019
GenBank Nucleotide #	NP_817126.1
NCBI Official Full Name	actin-like protein 6A isoform 2
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
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.** oncogenic roles in human cancers
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