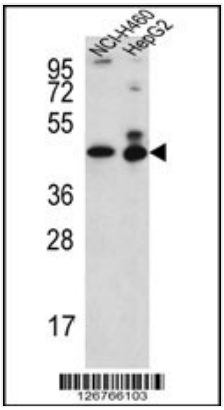
ACTL6B Antibody – Rabbit Polyclonal

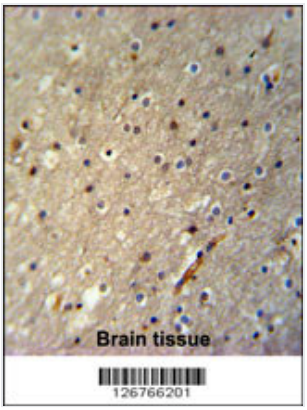
PRODUCT OVERVIEW

Product Name	ACTL6B, Polyclonal Antibody
Full Product Name	ACTL6B Antibody (N-term)
Product Gene Name	anti-ACTL6B antibody
Product Synonym Names	Actin-like protein 6B; 53 kDa BRG1-associated factor B; Actin-related protein Baf53b; ArpNalpha; BRG1-associated factor 53B; BAF53B; ACTL6B; ACTL6; BAF53B
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This ACTL6B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 42-70 amino acids from the N-terminal region of human ACTL6B.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	ACTL6B peptide (MBS9225618) is used for blocking the activity of ACTL6B antibody (MBS9207615)
Molecular Weight	46877
Immunogen Sequence Positions	42-70
OMIM	612458
3D Structure	ModBase 3D Structure for O94805
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-ACTL6B antibody	Neuroscience; Signal Transduction
Applications Tested/Suitable for anti-ACTL6B antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS)
Application Notes for anti-ACTL6B antibody	WB~~1:1000
Related Product Information for anti-ACTL6B antibody	ACTL6B is a member of a family 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 subunit 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. This subunit may be involved in the regulation of genes by structural modulation of their chromatin, specifically in the brain.

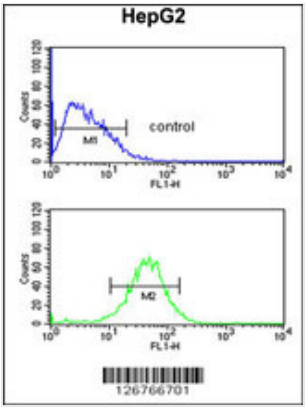
Product References and Citations for anti-ACTL6B antibody	Oma, Y., et al. Biochem. Biophys. Res. Commun. 301(2):521-528(2003) Kuroda, Y., et al. Biochem. Biophys. Res. Commun. 299(2):328-334(2002) Olave, I., et al. Genes Dev. 16(19):2509-2517(2002)
Other Notes	Small volumes of anti-ACTL6B antibody vial(s) 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 ACTL6B purchase	MBS9207615 is an antibody targeting ACTL6B. Also known as ACTL6B Antibody (N-term). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ACTL6B antibody
ACTL6B Antibody (N-term) western blot analysis in NCI-H460,HepG2 cell line lysates (35ug/lane).This demonstrates the ACTL6B antibody detected the ACTL6B protein (arrow).



Immunohistochemistry (IHC) of anti-ACTL6B antibody
ACTL6B Antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ACTL6B Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-ACTL6B antibody
ACTL6B Antibody (N-term) flow cytometric analysis of HepG2 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACTL6B. It may not necessarily be applicable to this product.

NCBI GI #	7705294
NCBI GeneID	51412
NCBI Accession #	NP_057272.1
UniProt Primary Accession #	O94805
UniProt Secondary Accession #	O75421; A4D2D0
UniProt Related Accession #	O94805

GenBank Nucleotide #	NM_016188.4
NCBI Official Full Name	actin-like protein 6B
NCBI Official Synonym Full Names	actin-like 6B
NCBI Official Symbol	ACTL6B
NCBI Official Synonym Symbols	ACTL6; BAF53B
UniProt Protein Name	Actin-like protein 6B
UniProt Synonym Protein Names	53 kDa BRG1-associated factor B; Actin-related protein Baf53b; ArpNalpha; BRG1-associated factor 53B; BAF53B
Protein Family	Actin-like protein
UniProt Gene Name	ACTL6B
UniProt Synonym Gene Names	ACTL6; BAF53B; BAF53B
UniProt Entry Name	ACL6B_HUMAN
NCBI Protein Information	actin-like protein 6B
NCBI Summary for ACTL6B	The protein encoded by this gene is a member of a family 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 subunit 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. This subunit may be involved in the regulation of genes by structural modulation of their chromatin, specifically in the brain. [provided by RefSeq, Jul 2008]
UniProt Comments for ACTL6B	BAF53B: a protein of the actin family 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. Protein type: Cytoskeletal Chromosomal Location of Human Ortholog: 7q22 Cellular Component: SWI/SNF complex; nucleolus; nucleus Molecular Function: structural constituent of cytoskeleton; transcription coactivator activity Biological Process: chromatin remodeling; regulation of transcription from RNA polymerase II promoter; nervous system development; establishment and/or maintenance of chromatin architecture; transcription, DNA-dependent
Research Articles on ACTL6B	**1.** Observational study of gene-disease association, gene-environment interaction, and pharmacogenomic / toxicogenomic. (HuGE Navigator)
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