ACTL6A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ACTL6A, Polyclonal Antibody
Full Product Name	Mouse ACTL6A (C-Term) Rabbit pAb
Product Gene Name	anti-ACTL6A antibody
Product Synonym Names	ARP4; Actl6; Baf53a; C79802; AI851094; 2810432C06Rik
Clonality	Polyclonal
Isotype	Ig
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.09% (W/V) Sodium Azide, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	47; 47; 43kDa
3D Structure	ModBase 3D Structure for Q9Z2N8
Immunogen	This mouse Actl6a antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 295-330 amino acids from the C-terminal region of human Mouse Actl6a.
Cellular Localization	Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ACTL6A antibody	Western Blot (WB)
Application Notes for anti-ACTL6A antibody	WB: 1:1000

Related Product Information for anti-ACTL6A antibody	Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Required for maximal ATPase activity of SMARCA4/BRG1/BAF190A and for association of the SMARCA4/BRG1/BAF190A containing remodeling complex BAF with chromatin/nuclear matrix. Component of the NuA4 histone acetyltransferase (HAT) complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification may both alter nucleosome-DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage. Also involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required for the ligand-bound VDR-mediated transrepression of the CYP27B1 gene (By similarity). Belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and is required for the proliferation of neural progenitors. During neural development a switch from a stem/progenitor to a post-mitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to post-mitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron-specific complexes (nBAF). The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth. Proposed core component of the chromatin remodeling INO80 complex which is involved in transcriptional regulation, DNA replication and probably DNA repair (By similarity).
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	MBS8558872 is an antibody targeting ACTL6A. Also known as Mouse ACTL6A (C-Term) Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	189181668
NCBI GeneID	56456
NCBI Accession #	NP_062647.2
UniProt Primary Accession #	Q9Z2N8
UniProt Related Accession #	Q9Z2N8
GenBank Nucleotide #	NP_062647.2
NCBI Official Full Name	actin-like protein 6A
NCBI Official Synonym Full Names	actin-like 6A
NCBI Official Symbol	Actl6a
NCBI Official Synonym Symbols	ARP4; Actl6; Baf53a; C79802; AI851094; 2810432C06Rik
UniProt Protein Name	Actin-like protein 6A
UniProt Synonym Protein Names	53 kDa BRG1-associated factor A; Actin-related protein Baf53a; BRG1-associated factor 53A; BAF53A
Protein Family	Actin-like protein
UniProt Gene Name	Actl6a
UniProt Synonym Gene Names	Actl6; Baf53a; BAF53A
UniProt Entry Name	ACL6A_MOUSE
NCBI Protein Information	actin-like protein 6A

Research Articles on ACTL6A	**1.** Results suggest that brain derived neurotrophic factor (BDNF) activation in the nucleus accumbens (NAc) may overcome memory and plasticity deficits linked to Actl6a protein (BAF53b) mutations.
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