ACTR2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ACTR2, Polyclonal Antibody
Full Product Name	ACTR2 Rabbit pAb
Product Gene Name	anti-ACTR2 antibody
Product Synonym Names	ARP2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	45kDa
OMIM	604221
3D Structure	ModBase 3D Structure for P61160
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-160 of human ACTR2 (NP_005713.1).
Cellular Localization	Cell Projection, Cytoplasm, Cytoskeleton
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ACTR2 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-ACTR2 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IF: 1:50-1:200
Related Product Information for anti-ACTR2 antibody	Functions as ATP-binding component of the Arp2/3 complex which is involved in regulation of actin polymerization and together with an activating nucleation-promoting factor (NPF) mediates the formation of branched actin networks. Seems to contact the pointed end of the daughter actin filament.
Other Notes	Small volumes of anti-ACTR2 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 ACTR2 purchase	MBS8545759 is an antibody targeting ACTR2. Also known as ACTR2 Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACTR2. It may not necessarily be applicable to this product.

NCBI GI #	5031571
NCBI GeneID	10097

NCBI Accession #	NP_005713.1
UniProt Primary Accession #	P61160
UniProt Related Accession #	P61160
GenBank Nucleotide #	NP_005713.1
NCBI Official Full Name	actin-related protein 2 isoform b
NCBI Official Synonym Full Names	actin related protein 2
NCBI Official Symbol	ACTR2
NCBI Official Synonym Symbols	ARP2
UniProt Protein Name	Actin-related protein 2
UniProt Synonym Protein Names	Actin-like protein 2
UniProt Gene Name	ACTR2
UniProt Synonym Gene Names	ARP2
UniProt Entry Name	ARP2_HUMAN
NCBI Protein Information	actin-related protein 2
NCBI Summary for ACTR2	The specific function of this gene has not yet been determined; however, the protein it encodes is known to be a major constituent of the ARP2/3 complex. This complex is located at the cell surface and is essential to cell shape and motility through lamellipodial actin assembly and protrusion. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for ACTR2	ARP2: Functions as ATP-binding component of the Arp2/3 complex which is involved in regulation of actin polymerization and together with an activating nucleation-promoting factor (NPF) mediates the formation of branched actin networks. Seems to contact the pointed end of the daughter actin filament. Component of the Arp2/3 complex composed of ARP2, ARP3, ARPC1B/p41-ARC, ARPC2/p34-ARC, ARPC3/p21-ARC, ARPC4/p20-ARC and ARPC5/p16-ARC. Belongs to the actin family. ARP2 subfamily. Protein type: Motility/polarity/chemotaxis; Cytoskeletal; Actin-binding Chromosomal Location of Human Ortholog: 2p14 Cellular Component: Arp2/3 protein complex; cell projection; focal adhesion; membrane; cytoplasm; cytosol; actin cap; actin cytoskeleton Molecular Function: actin filament binding; structural constituent of cytoskeleton; ATP binding Biological Process: meiotic chromosome movement towards spindle pole; axon guidance; asymmetric cell division; ephrin receptor signaling pathway; establishment and/or maintenance of cell polarity; innate immune response; cilium biogenesis; cytokinesis after meiosis; cell motility; cytoplasmic transport; spindle localization
Research Articles on ACTR2	**1.** we show that drebrin and hCDC14A regulate the recruitment of the actin organizer Arp2 to centrosomes. In addition, during ciliogenesis hCDC14A also regulates endocytosis and targeting of myosin Va vesicles to the basal body in a drebrin-independent manner, indicating that it impacts primary cilia formation in a multilayered manner.
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