ACTR1A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ACTR1A, Polyclonal Antibody
Full Product Name	ACTR1A, ID (ACTR1A, CTRN1, Alpha-centractin, ARP1, Actin-RPV, Centrosome-associated actin homolog) (MaxLight 650)
Product Gene Name	anti-ACTR1A antibody
Product Synonym Names	ACTR1A; CTRN1; Alpha-centractin; ARP1; Actin-RPV; Centrosome-associated actin homolog
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
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: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	42,614 Da
OMIM	605143
3D Structure	ModBase 3D Structure for P61163
Immunogen	ACTR1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 97-126 amino acids from the Central region of human ACTR1A.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-ACTR1A antibody	Antibodies; Actin Related Proteins
Applications Tested/Suitable for anti-ACTR1A antibody	Western Blot (WB), FLISA
Application Notes for anti-ACTR1A antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ACTR1A antibody	This gene encodes a 42.6 kD subunit of dynactin, a macromolecular complex consisting of 10-11 subunits ranging in size from 22 to 150 kD. Dynactin binds to both microtubules and cytoplasmic dynein. It is involved in a diverse array of cellular functions, including ER-to-Golgi transport, the centripetal movement of lysosomes and endosomes, spindle formation, chromosome movement, nuclear positioning, and axonogenesis. This subunit is present in 8-13 copies per dynactin molecule, and is the most abundant molecule in the dynactin complex. It is an actin-related protein, and is approximately 60% identical at the amino acid level to conventional actin.
Product References and Citations for anti-ACTR1A antibody	Sugarbaker, D.J., et al. Proc. Natl. Acad. Sci. U.S.A. 105(9):3521-3526(2008). Petretti, C., et al. EMBO Rep. 7(4):418-424(2006). Casenghi, M., et al. Dev. Cell 5(1):113-125(2003). Carew, J.A., et al. J. Thromb. Haemost. 1(6):1220-1227(2003). Takahashi, M., et al. Mol. Biol. Cell 13(9):3235-3245(2002).

Other Notes	Small volumes of anti-ACTR1A 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 ACTR1A purchase	MBS6271362 is an antibody targeting ACTR1A. Also known as ACTR1A, ID (ACTR1A, CTRN1, Alpha-centractin, ARP1, Actin-RPV, Centrosome-associated actin homolog) (MaxLight 650). Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACTR1A. It may not necessarily be applicable to this product.

NCBI GI #	5031569
NCBI GeneID	10121
NCBI Accession #	NP_005727.1
UniProt Primary Accession #	P61163
UniProt Secondary Accession #	P42024; B2R6B0
UniProt Related Accession #	P61163; AAB23391
GenBank Nucleotide #	NM_005736.3
NCBI Official Full Name	alpha-centractin
NCBI Official Synonym Full Names	ARP1 actin-related protein 1 homolog A, centractin alpha
NCBI Official Symbol	ACTR1A
NCBI Official Synonym Symbols	ARP1; Arp1A; CTRN1
UniProt Protein Name	Alpha-centractin
UniProt Synonym Protein Names	ARP1; Actin-RPV; Centrosome-associated actin homolog
Protein Family	Alpha-centractin
UniProt Gene Name	ACTR1A
UniProt Synonym Gene Names	CTRN1; Centractin
UniProt Entry Name	ACTZ_HUMAN
NCBI Protein Information	alpha-centractin
UniProt Comments for ACTR1A	Function: Component of a multi-subunit complex involved in microtubule based vesicle motility. It is associated with the centrosome. Subcellular location: Cytoplasm › cytoskeleton. Cytoplasm › cytoskeleton › microtubule organizing center › centrosome. Sequence similarities: Belongs to the actin family. ARP1 subfamily.
Research Articles on ACTR1A	**1.** point mutation observed by transcriptome sequencing of malignant pleural mesothelioma tumors
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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