ACAP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ACAP1, Polyclonal Antibody
Full Product Name	ACAP1, NT (ACAP1, CENTB1, KIAA0050, Arf-GAP with coiled-coil, ANK repeat and PH domain-containing protein 1, Centaurin-beta-1) (MaxLight 490)
Product Gene Name	anti-ACAP1 antibody
Product Synonym Names	ACAP1; CENTB1; KIAA0050; Arf-GAP with coiled-coil; ANK repeat and PH domain-containing protein 1; Centaurin-beta-1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
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: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	81,536 Da
OMIM	607763
3D Structure	ModBase 3D Structure for Q15027
Immunogen	ACAP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 103-132 amino acids from the N-terminal region of human ACAP1.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-ACAP1 antibody	Antibodies; KIAA; orf
Applications Tested/Suitable for anti-ACAP1 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-ACAP1 antibody	IHC: 1:50-100 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-ACAP1 antibody	Catalyzes the transfer of Gal to GlcNAc-based acceptors with a preference for the core3 O-linked glycan GlcNAc(beta1,3)GalNAc structure. Can use glycolipid LC3Cer as an efficient acceptor.
Product References and Citations for anti-ACAP1 antibody	Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Cuthbert, E.J., et al. Am. J. Physiol., Cell Physiol. 294 (1), C263-C270 (2008): Li, J., et al. J. Cell Biol. 178(3):453-464(2007). Wu, C., et al. Proteomics 7(11):1775-1785(2007). Shinozaki-Narikawa, N., et al. Traffic 7(11):1539-1550(2006).

Other Notes	Small volumes of anti-ACAP1 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 ACAP1 purchase	MBS6270788 is an antibody targeting ACAP1. Also known as ACAP1, NT (ACAP1, CENTB1, KIAA0050, Arf-GAP with coiled-coil, ANK repeat and PH domain-containing protein 1, Centaurin-beta-1) (MaxLight 490). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACAP1. It may not necessarily be applicable to this product.

NCBI GI #	7661880
NCBI GeneID	9744
NCBI Accession #	NP_055531.1
UniProt Primary Accession #	Q15027
UniProt Secondary Accession #	Q53XN9
UniProt Related Accession #	Q15027
GenBank Nucleotide #	NM_014716.3
NCBI Official Full Name	arf-GAP with coiled-coil, ANK repeat and PH domain-containing protein 1
NCBI Official Synonym Full Names	ArfGAP with coiled-coil, ankyrin repeat and PH domains 1
NCBI Official Symbol	ACAP1
NCBI Official Synonym Symbols	CENTB1
UniProt Protein Name	Arf-GAP with coiled-coil, ANK repeat and PH domain-containing protein 1
UniProt Synonym Protein Names	Centaurin-beta-1; Cnt-b1
Protein Family	Arf-GAP with coiled-coil, ANK repeat and PH domain-containing protein
UniProt Gene Name	ACAP1
UniProt Synonym Gene Names	CENTB1; KIAA0050; Cnt-b1
UniProt Entry Name	ACAP1_HUMAN
NCBI Protein Information	arf-GAP with coiled-coil, ANK repeat and PH domain-containing protein 1; cnt-b1; centaurin-beta-1; centaurin, beta 1; Arf GAP with coiled coil, ANK repeat and PH domains 1

UniProt Comments for ACAP1	CENTB1: a member of the centaurin family of ADP-ribosylation factor directed GTPase-activating proteins (GAPs). A GAP for ARF1 and ARF5. Two alternatively-spliced isoforms have been described. Isoform 1 is brain-specific, and isoform 2 is ubiquitously expressed, with highest levels in brain and heart. Isoform 1 participates to the prevention of neuronal apoptosis by enhancing PI3 kinase activity. It aids the coupling of metabotropic glutamate receptor 1 (GRM1) to cytoplasmic PI3 kinase by interacting with Homer scaffolding proteins, and also seems to mediate anti-apoptotic effects of NGF by activating nuclear PI3 kinase. Isoform 2 does not stimulate PI3 kinase but may protect cells from apoptosis by stimulating Akt. Regulates the adapter protein 1 (AP-1)-dependent trafficking of proteins in the endosomal system. The PH domains of isoforms 1 and 2 bind phospholipids, but they differentially regulate subcellular location. The PH domain of isoform 1 directs the protein to the nucleus, but the PH domain of isoform 2 directs it to the cytosol. Protein type: Motility/polarity/chemotaxis; GAPs, ARF; GAPs Chromosomal Location of Human Ortholog: 17p13.1 Cellular Component: membrane; recycling endosome membrane Molecular Function: zinc ion binding Biological Process: protein transport; positive regulation of GTPase activity
Research Articles on ACAP1	**1.** ACAP1 and ARAP2 each colocalize with Arf6 but they did not colocalize with each other and have opposing effects on focal adhesions.
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