ACAP1 cDNA Clone – Arfgap with Coiled-Coil, Ankyrin Repeat and Ph Domains 1 (Human)

PRODUCT OVERVIEW

Product Name	ACAP1, cDNA Clone
Full Product Name	ACAP1 cDNA Clone
Product Gene Name	ACAP1 cdna clone
Sequence	atgacggtca agctggattt cgaggagtgt ctcaaggact caccccgttt ccgagcctct attgagctgg tggaagccga agtgtcagaa ttggagaccc gtctggaaaa gctcctgaaa ctgggcactg gtctcctgga aagtgggcgc cattaccttg ctgccagccg cgccttcgtt gtcggcattt gtgacctggc ccgcctgggt ccaccagagc ccatgatggc ggagtgtctg gaaaaattca ccgtgagcct gaaccacaag ctggacagcc atgcggagct tctagatgcc acccaacaca cactgcagca gcagatccag accctggtca aggaaggtct gcggggtttc cgagaggctc gccgggattt ctggcggggg gctgagagcc tggaggctgc cctgacccac aacgcagagg ttcccaggcg ccgggcccag gaggcagaag aggcaggagc tgctttgagg acggctcgag ctgggtaccg gggacgggca ctggattatg ccctgcagat caacgtgatt gaggacaaga ggaagtttga catcatggag tttgtgctgc gtttggtgga ggcccaggct acccatttcc agcagggcca tgaggagctg agccggctgt cccagtatcg aaaggagctg ggcgcccagt tgcaccagct ggtcttgaat tcagcacgag agaagaggga catggagcag agacacgtgc tgctgaaaca gaaggagctg ggtggggagg agccagaacc aagcttaaga gaggggcctg gtggcctggt gatggaagga catctcttca aacgggccag caacgcattt aagacctgga gcagacgctg gttcaccatt cagagcaacc aactggttta ccagaagaag tacaaggacc ctgtgactgt ggtggtggat gaccttcgtc tctgcacagt gaaactctgc cctgactcag aaaggcggtt ctgctttgag gtggtgtcca ccagcaagtc ctgcctcctc caggctgact cagagcgcct cctgcagctg tgggtcagtg ctgtgcagag cagcattgct tctgccttca gtcaggctcg ccttgatgac agcccccggg gtccaggcca gggctcagga cacctggcca taggctctgc tgccaccctg ggctctggtg gaatggccag gggaagggag cctgggggag tcgggcacgt ggtggcccag gtccagagtg tggatggcaa tgcccagtgc tgcgactgcc gggagccagc cccggagtgg gccagcatca accttggtgt caccctctgc attcagtgtt ccggcatcca caggagcctt ggtgttcact tctccaaagt ccggtctctg acccttgact catgggagcc agaactagtg aagctcatgt gtgagctggg aaatgtcatc atcaaccaga tctatgaggc ccgcgtggag gccatggcag tgaagaaacc agggcccagc tgctcccggc aggagaagga ggcctggatt cacgctaaat acgtggagaa gaagttcctg accaagctgc ctgagattcg agggcgaaga ggtggccggg ggcgcccaag ggggcagcct cctgtgcccc caaagccttc catcaggccc cggccaggga gcttgagatc caagccagag ccccctctg aggacctggg aagcctgcac cctggggccc tactgtttcg agcgtctggg catcctccat ctcttcccac catggctgat gccttgccc atggagctga tgtcaactgg gtcaatgggg gccaagataa tgccacaccg ctgatccagg ccacagctgc taattctctt ctggcctgtg agtttctcct ccagaacggg gcgaacgtga accaagcgga cagtgcgggc cggggcccgc tgcaccacgc aaccattctt ggccacacgg ggctcgcctg cctgttcctg aaacggggag ctgatctggg ggctcgagac tctgaaggca gggaccctct gaccatcgcc atggaaacag ccaacgctga catcgtcacc ctgctacgac tggcaaagat gagggaggct gaagcggccc aggggcaggc aggagatgag acgtatcttg acatcttccg cgacttctcc ctcatggcgt cagacgaccc ggagaagctg agccgtcgca gtcatgacct ccacacgctg tga
Molecular Weight	81,536 Da
OMIM	607763
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ACAP1 cdna clone	MBS1269946 is a cDNA clone targeting ACAP1.
Other Notes	Small volumes of ACAP1 cdna clone 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.

ADDITIONAL DETAILS

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

NCBI GI #	17391288
NCBI GeneID	9744
NCBI Accession #	BC018543

UniProt Secondary Accession #	Q53XN9
UniProt Related Accession #	Q15027
NCBI Official Full Name	Homo sapiens ArfGAP with coiled-coil, ankyrin repeat and PH domains 1, mRNA
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
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: GAPs; Motility/polarity/chemotaxis; GAPs, ARF Chromosomal Location of Human Ortholog: 17p13.1 Cellular Component: membrane Molecular Function: protein binding
Research Articles on ACAP1	**1.** The serum lever of Alzheimer's disease were decrease and the expression of ACAP1 strongly correlated with the Mini-Mental State Examination scores of the AD patients
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