

Recombinant Human ARAP1, His-tagged

Cat. No. ARAP1-26993TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 757-1133 of Human ARAP1 with an N terminal His tag. Observed mwt: 44 kDa ; accession number: AAI40793.
Species	Human
Source	E.coli
ProteinLength	757-1133 a.a.
Description	The protein encoded by this gene contains SAM, ARF-GAP, RHO-GAP, ankyrin repeat, RAS-associating, and pleckstrin homology (PH) domains. In vitro, this protein displays RHO-GAP and phosphatidylinositol (3,4,5) trisphosphate (PIP3)-dependent ARF-GAP activity. The encoded protein associates with the Golgi, and the ARF-GAP activity mediates changes in the Golgi and the formation of filopodia. It is thought to regulate the cell-specific trafficking of a receptor protein involved in apoptosis. Multiple transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Tissue specificity	Detected in heart, skeletal muscle, spleen, kidney, liver, placenta, lung, peripheral blood leukocytes, adrenal gland, bone marrow, brain, lymph node, mammary gland, prostate, spinal cord, stomach, thyroid and trachea.
Form	Lyophilised:Reconstitution with 143 µl aqua dest.

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Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	KVSRVRELLVRLPPVNRATVKALISHLYCVQCFSDTNQMN VHNLAIVFGPTLFQTDG QDYKAGRVVEDLINHYVVVFS VDEEELRKQREEITAIVKMRVAGTASGTQHAGDFIC TV YLEEKKAETEQHIKVPASMTAEELTLEILDRRNVGIREKD YWTCFEVNEREEAER PLHFAEKVLPILHGLGTDShLVV KKHQAMEAMLLYLASRVGDTKHGMMKFRDRSL LGLGL PSGGFHdryFILNssCLRLYKEVRSHRPEKEWPIKSLK VYLGVKKKLRPPT CWGFTVVHETEKHEKQQWYLCCDTQME LREWFATFLFVQHDGLVWPSEPSRVSR AVPEVRLGsvs LIPLRGSEnEMRRSVAaftADPLSLLRNv
Sequence Similarities	Contains 1 Arf-GAP domain.Contains 4 PH domains.Contains 1 Ras-associating domain.Contains 1 Rho-GAP domain.Contains 1 SAM (sterile alpha motif) domain.

GENE INFORMATION

Gene Name	ARAP1 ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1 [Homo sapiens]
Official Symbol	ARAP1
Synonyms	ARAP1; ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1; centaurin, delta 2 , CENTD2; arf-GAP with Rho-GAP domain, ANK repeat and PH domain-containing protein 1;
Gene ID	116985
mRNA Refseq	NM_001040118

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Protein Refseq	NP_001035207
MIM	606646
Uniprot ID	Q96P48
Chromosome Location	11q13.3
Pathway	Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; Regulation of RhoA activity, organism-specific biosystem; Rho GTPase cycle, organism-specific biosystem; Signal Transduction, organism-specific biosystem;
Function	ARF GTPase activator activity; Rho GTPase activator activity; metal ion binding; phosphatidylinositol-3,4,5-trisphosphate binding; protein binding;

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