

Product datasheet for **AR09278PU-L**

CDC42 (1-188, T7-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	CDC42 (1-188, T7-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MASMTGGQOM</u> <u>GRGSHMQTIK</u> CVVVG DGAVG KTCLLSYTT NKFPSEYVPT VFDNYAVTVM IGGEPYTLGL FDTAGQEDYD RLRPLSYPQT DVFLVCF SVV SPSSFENVKE KVVPEITHHC PKTPFLLVGT QIDLRDDPST IEKLAKNKQK PITPETAEL ARDLKAVKYV ECSALTQKGL KNVFDEAILA ALEPPEPKKS RRC
Tag:	T7-tag
Concentration:	lot specific
Purity:	>95% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol, 2 mM EDTA
Endotoxin:	< 1.0 EU per 1 µg of protein (determined by LAL method)
Preparation:	Liquid purified protein
Protein Description:	Recombinant human CDC42, fused to T7-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_001034891</u>
Locus ID:	998
UniProt ID:	<u>P60953</u>
Cytogenetics:	1p36.12
Synonyms:	CDC42Hs; G25K; TKS



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Summary:

The protein encoded by this gene is a small GTPase of the Rho-subfamily, which regulates signaling pathways that control diverse cellular functions including cell morphology, migration, endocytosis and cell cycle progression. This protein is highly similar to *Saccharomyces cerevisiae* Cdc 42, and is able to complement the yeast *cdc42-1* mutant. The product of oncogene *Dbl* was reported to specifically catalyze the dissociation of GDP from this protein. This protein could regulate actin polymerization through its direct binding to Neural Wiskott-Aldrich syndrome protein (N-WASP), which subsequently activates Arp2/3 complex. Alternative splicing of this gene results in multiple transcript variants. Pseudogenes of this gene have been identified on chromosomes 3, 4, 5, 7, 8 and 20. [provided by RefSeq, Apr 2013]

Protein Families:

Druggable Genome

Protein Pathways:

Adherens junction, Axon guidance, Chemokine signaling pathway, Endocytosis, Epithelial cell signaling in *Helicobacter pylori* infection, Fc gamma R-mediated phagocytosis, Focal adhesion, GnRH signaling pathway, Leukocyte transendothelial migration, MAPK signaling pathway, Neurotrophin signaling pathway, Pancreatic cancer, Pathogenic *Escherichia coli* infection, Pathways in cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway, Tight junction, VEGF signaling pathway

Product images: