

Recombinant Human CDC42

Cat. No. CDC42-26610TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human CDC42 with N terminal proprietary tag; amino acids 1-188, 48kDa.
Species	Human
Source	E.coli
ProteinLength	1-188 a.a.
Description	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 <i>Saccharomyces cerevisiae</i> Cdc 42, and is able to complement the yeast <i>cdc42-1</i> mutant. The product of oncogene <i>Dbl</i> 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.
Form	Lyophilised:Reconstitute in 20mM HEPES, pH 7.0, Packaging size : 0.2 mg
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 50mM Sodium chloride, 20mM HEPES, 1mM EDTA, pH 7.5

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the small GTPase superfamily. Rho family. CDC42 subfamily.
Full Length	Full L.
GENE INFORMATION	
Gene Name	CDC42 cell division cycle 42 (GTP binding protein, 25kDa) [Homo sapiens]
Official Symbol	CDC42
Synonyms	CDC42; cell division cycle 42 (GTP binding protein, 25kDa); cell division cycle 42 (GTP binding protein, 25kD); cell division control protein 42 homolog; CDC42Hs; G25K;
Gene ID	998
mRNA Refseq	NM_001039802
Protein Refseq	NP_001034891
MIM	116952
Uniprot ID	P60953
Chromosome Location	1p36.1
Function	GTP binding; GTP-dependent protein binding; GTPase activity; GTPase activity;

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mitogen-activated protein kinase kinase kinase binding;

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