

Recombinant Human CDC42, GST/His-tagged

Cat. No. CDC42-7033H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human CDC42 was expressed in E. coli cells using a N-dual GST/His tag.
Species	Human
Source	E.coli
ProteinLength	Full length
Description	CDC42 is a member of the Rho family of GTPases and is part of cellular pathways fundamental to growth, differentiation and apoptosis. Downstream targets for CDC42 include those that regulate the actin cytoskeleton (e.g. WASP) and cellular stress pathways (e.g. PAK) as well as the coatmer protein complex and PAR6. CDC42 is involved in the G(1)-S progression of the cell cycle. CDC42 and its downstream effector mDia3 are involved in bi-orientation and stabilization of spindle microtubules attachment to kinetochores and regulate chromosome alignment and segregation during mitosis.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~48 kDa
Purity	>90%

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Applications	Kinase Assay, Western Blot
Storage	Store at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.2 $\mu\text{g}/\mu\text{l}$
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; G25K GTP-binding protein; GTP-binding protein, 25kD; growth-regulating protein; small GTP binding protein CDC42; dJ224A6.1.1 (cell division cycle 42 (GTP-binding protein, 25kD)); dJ224A6.1.2 (cell division cycle 42 (GTP-binding protein, 25kD));
Gene ID	998
mRNA Refseq	NM_001039802
Protein Refseq	NP_001034891
MIM	116952
UniProt ID	P60953
Chromosome	1p36.1

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Location	
Pathway	Adaptive Immune System, organism-specific biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; Axon guidance, organism-specific biosystem;
Function	GTP binding; GTP-dependent protein binding; GTPase activity; GTPase activity; mitogen-activated protein kinase kinase kinase binding; nucleotide binding; protein binding; thioesterase binding;

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