Recombinant Human Cell Division Cycle 42 (GTP binding protein, 25kDa), GST-tagged

Cat. No. CDC42-1579H **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
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 coatomer 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.
Applications	Kinase Assay; Western Blot
Molecular Weight	48 kDa
Expression System	E.coli
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.

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Purity	> 90 %
Concentration	0.2 ug/ul
Sequences	Full-length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
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

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); G25K; CDC42Hs; cell division cycle 42; OTTHUMP00000002834; 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)); Cell division control protein 42 homolog; G25K GTP-binding protein; OTTHUMP00000002926; cell division cycle 42 (GTP binding protein, 25kD); cell division cycle 42 (GTP-binding protein, 25kD)

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Gene ID	998
mRNA Refseq	NM_001791
Protein Refseq	NP_001782
MIM	116952
UniProt ID	P60953
Chromosome Location	1p36.1
Function	GTP binding; GTP-dependent protein binding; GTPase activity; mitogen-activated protein kinase kinase kinase binding; nucleotide binding; protein binding; mitogen-activated protein kinase kinase kinase binding
CDC42.	

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