

Recombinant Human Cell Division Cycle 42, GST-tagged

Cat. No. CDC42-1023H Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	E.coli
Description	<p>Rho family GTPases Rac1 and Cdc42 (cell division cycle 42) belong to the Ras superfamily of small GTP-binding proteins. The human homolog of yeast Cdc42 is essential for cell polarity and regulates cytoskeletal rearrangements in responses to growth factor stimulation. The Cterminal deletion of 13 amino acids of Cdc42 Δ C includes the polybasic domain consisting of six contiguous basic amino acids. The polybasic domain of Cdc42 is required for homodimer formation. The Gly12 to Val mutation of Cdc42 Δ C leads to a constitutive active protein. The GST-Tag facilitates the protein's application in typical GST pull-down assays. MW=19.8kDa (178 amino acids).</p>
Form	Liquid. Supplied in 20mM Tris-HCl pH8.0, 100mM NaCl, 5 mM MgCl ₂ and 5mM β -mercaptoethanol.
Purity	\geq 95% by SDS-PAGE.
Usage	For in vitro use only.
Storage	Quality guaranteed for 12 months. Store at -80°C. Avoid freeze / thaw cycles.

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GENE INFORMATION

Gene Name CDC42 cell division cycle 42 (GTP binding protein, 25kDa) [Homo sapiens]

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)

Gene ID 998

mRNA Refseq [NM_001039802](#)

Protein Refseq [NP_001034891](#)

MIM 116952

UniProt ID [P60953](#)

Chromosome Location 1p36.1

Pathway 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;

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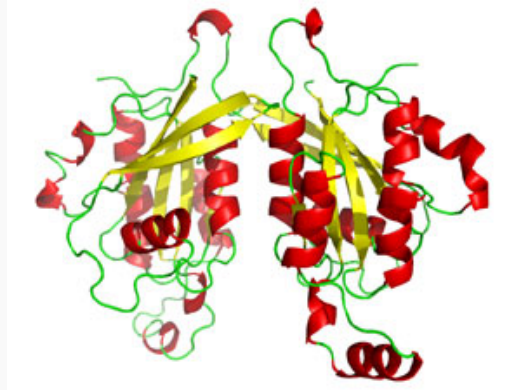
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VEGF signaling pathway; Axon guidance; Signaling by EGFR; Signaling by Rho GTPases

Function

GTP binding; GTPase activity; nucleotide binding; protein binding

PDB rendering based on 1a4r.



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