

Recombinant Full Length Human CDC42 Protein, GST-tagged

Cat. No. CDC42-3076HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CDC42 full-length ORF (AAH02711, 1 a.a. - 191 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	191 amino acids
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. Pseudogenes of this gene have been identified on chromosomes 3, 4, 5, 7, 8 and 20. [provided by RefSeq, Apr 2013]
Molecular Mass	46.75 kDa
AA Sequence	MQTIKCVVVG DGAVGKTC LLISYTTN KFPSEYVPTVFDNYAVTVMIGGEPYTLGLFDT AGQEDYDRLRPLSYPTQDVFLVCFSSVSPSSFENVKEKWVPEITHHCPKTPFLLVGT QIDLRDDPSTIEKLAKNKQKPITPETA EKLARDLKAVKYVECSALTQKGLKNVFDEAIL

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AALEPPEPKKSRRCVLL

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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](#)

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UniProt ID

P60953

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