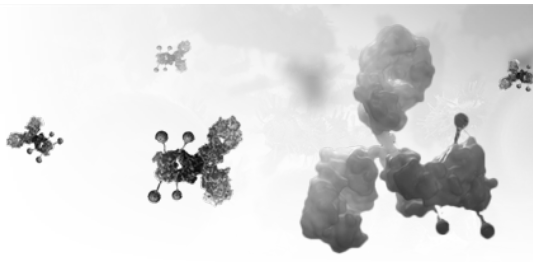

Human CDC42 peptide (DAG-P1410)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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 Saccharomyces cerevisiae Cdc 42, and is able to complement the yeast cdc42-1 mutant. The product of oncogene Dbl 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]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the small GTPase superfamily. Rho family. CDC42 subfamily.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	CDC42 cell division cycle 42 [Homo sapiens (human)]
Official Symbol	CDC42
Synonyms	CDC42; cell division cycle 42; G25K; CDC42Hs; cell division control protein 42 homolog; G25K GTP-binding protein; GTP-binding protein, 25kD; growth-regulating protein; GTP binding

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	protein, 25kDa; 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));
Entrez Gene ID	998
mRNA Refseq	NM_001039802.1
Protein Refseq	NP_001034891.1
UniProt ID	P60953
Chromosome Location	1p36.1
Pathway	AGE/RAGE pathway, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Androgen receptor signaling pathway, organism-specific biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; Axon guidance, organism-specific biosystem; BDNF signaling pathway, organism-specific biosystem; Bacterial invasion of epi
Function	GTP binding; GTP-dependent protein binding; GTPase activity; apolipoprotein A-I receptor binding; identical protein binding; mitogen-activated protein kinase kinase kinase binding; protein binding; protein kinase binding; protein kinase binding; thioester

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