

Product datasheet for PH319153

OriGene Technologies, Inc.

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CDC42 (NM 001039802) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards

Description: CDC42 MS Standard C13 and N15-labeled recombinant protein (NP_001034891)

Species: Human **HEK293 Expression Host:**

Expression cDNA Clone

or AA Sequence:

RC219153

Predicted MW: 21.3 kDa

>RC219153 protein sequence **Protein Sequence:**

Red=Cloning site Green=Tags(s)

MQTIKCVVVGDGAVGKTCLLISYTTNKFPSEYVPTVFDNYAVTVMIGGEPYTLGLFDTAGQEDYDRLRPL SYPOTDVFLVCFSVVSPSSFENVKEKWVPEITHHCPKTPFLLVGTQIDLRDDPSTIEKLAKNKQKPITPE

TAEKLARDLKAVKYVECSALTQKGLKNVFDEAILAALEPPEPKKSRRCVLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration: >0.05 µg/µL as determined by microplate BCA method

Labeling Method: Labeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-Lysine

25 mM Tris-HCl, 100 mM glycine, pH 7.3 **Buffer:**

Store at -80°C. Avoid repeated freeze-thaw cycles. Storage:

Stability: Stable for 3 months from receipt of products under proper storage and handling conditions.

RefSeq: NP 001034891

RefSeg Size: 2308

RefSeq ORF: 573

Synonyms: CDC42Hs; G25K; TKS

Locus ID: 998

UniProt ID: P60953, A0A024RAA5





Cytogenetics:

1p36.12

Summary: 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]

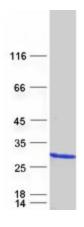
Protein Families: Druggable Genome

Protein 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, T cell receptor

signaling pathway, Tight junction, VEGF signaling pathway

Product images:



Coomassie blue staining of purified CDC42 protein (Cat# [TP319153]). The protein was produced from HEK293T cells transfected with CDC42 cDNA clone (Cat# [RC219153]) using MegaTran 2.0 (Cat# [TT210002]).