Datasheet for ABIN7195024

CDC42 Protein (GST tag)

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Overview

Quantity:	100 µg
Target:	CDC42
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDC42 protein is labelled with GST tag.

Product Details

Purpose:	Recombinant Human CDC42/G25K Protein (GST Tag)
Sequence:	Met 1-Cys 188
Characteristics:	A DNA sequence encoding the mature form of human CDC42 isoform 2 (P60953-2) (Met 1-Cys 188) was fused with the GST tag at the N-terminus.
Purity:	> 85 % as determined by reducing SDS-PAGE.

Target Details

Target:	CDC42
Alternative Name:	CDC42/G25K (CDC42 Products)
Background:	Background: Nucleophosmin 1 (NPM1), also known as nucleolar phosphoprotein B23 or numatrin, is a member of the nucleoplasmin family. Nucleophosmin (NPM) is a nucleolar phosphoprotein that plays multiple roles in ribosome assembly and transport, cytoplasmic-nuclear trafficking, centrosome duplication and regulation of p53. The NPM1 gene is frequently

Target Details

	involved in chromosomal translocation, mutation and deletion. Mutations of the NPM1 gene leading to the expression of a cytoplasmic mutant protein, NPMc+, are the most frequent genetic abnormalities found in acute myeloid leukemias. Acute myeloid leukemias (AML) with mutated NPM1 have distinct characteristics, including a significant association with a normal karyotype, involvement of different hematopoietic lineages, a specific gene-expression profile and clinically, a better response to induction therapy and a favorable prognosis. In addition, NPM1 is a crucial gene to consider in the context of the genetics and biology of cancer. NPM1 is frequently overexpressed, mutated, rearranged and deleted in human cancer. Traditionally regarded as a tumour marker and a putative proto-oncogene, it has now also been attributed with tumour-suppressor functions. Synonym: CDC42Hs,G25K
Molecular Weight:	48.1 kDa
Pathways:	MAPK Signaling, Microtubule Dynamics, RTK Signaling, WNT Signaling, TCR Signaling, EGFR Signaling Pathway, Regulation of Actin Filament Polymerization, Regulation of Muscle Cell Differentiation, Cell-Cell Junction Organization, Maintenance of Protein Location, Skeletal Muscle Fiber Development, Signaling Events mediated by VEGFR1 and VEGFR2, EGFR Downregulation, VEGF Signaling

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 0.15M NaCl, 0.5 mM GSH, pH 8.0
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.