

Recombinant Human DLC1, GST-tagged

Cat. No. DLC1-5133H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DLC1 Protein, With N-GST Tag (rhDLC1-GST) Val899–Trp996 (Accession # NP_006085.2) was expressed in E.coli cells
Species	Human
Source	E.coli
ProteinLength	899-996 a.a.
Description	Deleted in Liver Cancer 1 (DLC1), also known as rho GTPase-activating protein 7 (ARHGAP7) and StAR-related lipid transfer protein 12 (STARD12). DLC1 gene is deleted in the primary tumor of hepatocellular carcinoma. It maps to 8p22-p21.3, a region frequently deleted in solid tumors. It is suggested that this gene is a candidate tumor suppressor gene for human liver cancer, as well as for prostate, lung, colorectal, and breast cancers. The DLC1 protein contains four major functional domains: an N-terminal sterile α motif (SAM), a serine-rich (SR) region, a Rho-GAP domain, and a C-terminal steroidogenic acute regulatory protein related lipid-transfer (START) domain. DLC1 is localized to focal adhesions located at the periphery of cells. The main function of DLC1 is its Rho-GAP activity: its ability to enhance activated GTP-bound Rho-GTPases (specifically, RhoA and Cdc42) intrinsic ability to convert their GTP into GDP, thus rendering them inactive. RhoGTPases are members of the Ras superfamily, and are involved in actin cytoskeleton organization and cell adhesion.

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Form	Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4, with 1 M urea and 5 mM GSH. Normally Mannitol or Trehalose are added as protectants before lyophilization. Contact us for customized product format or formulation.
Molecular Mass	37.5 kDa. In DTT-reduced SDS-PAGE, protein migrates as 37.5 kDa.
Endotoxin	Less than 1.0 EU per µg of the rhDLC1-GST by the LAL method.
Purity	>92% purity as determined by SDS-PAGE of reduced rhDLC1-GST.
Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4oC-8oC); After reconstitution under sterile conditions for 1 month (4oC-8oC) or 3 months (-20oC to -70oC).

GENE INFORMATION

Gene Name	DLC1 deleted in liver cancer 1 [Homo sapiens]
Official Symbol	DLC1
Synonyms	DLC1; deleted in liver cancer 1; rho GTPase-activating protein 7; ARHGAP7; DLC 1; HP; p122 RhoGAP; StAR related lipid transfer (START) domain containing 12; STARD12; Rho-GTPase-activating protein 7; deleted in liver cancer 1 protein; START domain-containing protein 12; deleted in liver cancer 1 variant 2; rho-type GTPase-activating protein 7; StAR-related lipid transfer (START) domain containing 12; p122-RhoGAP; FLJ21120;
Gene ID	10395
mRNA Refseq	NM_001164271

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Protein Refseq	NP_001157743
MIM	604258
UniProt ID	Q96QB1
Chromosome Location	8p22
Pathway	Regulation of RhoA activity, organism-specific biosystem; Rho GTPase cycle, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by Rho GTPases, organism-specific biosystem;
Function	GTPase activator activity; NOT Rac GTPase activator activity; Rho GTPase activator activity; Rho GTPase activator activity; SH2 domain binding; phospholipase binding; protein binding; vinculin binding;

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