

Datasheet for ABIN7565181
DLC1 Protein (AA 1-1092) (His tag)



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Overview

Quantity:	1 mg
Target:	DLC1
Protein Characteristics:	AA 1-1092
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DLC1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Dlc1 Protein expressed in mammalian cells.
Sequence:	<p>MCRDEPDTMI LTQIEAKEAC DWLRVTGFPQ YAQLYEDLLF PVDIALVKRE HDFLDRDAIE ALCRRNLNTLN KCAVMKLEIS PHRKRESDSD EDEPCAISGK WTFQRDSKRW SRLEEFDVFF PKQDPIPGSP DNSRLQSATS HESMLTDLSE HQEVASVRSL SSTSSSVPTH AAHSGDATTP RTNSVISVCS SGHFVGNDDS FSSLPSPKEL SSFSSMKGH HEKNTKSKTR SLLKRMECLK LKGSHHSKHK APSKGLIIS APILQEGMDE AKLKQLNCVE ISALNGNHIN VPMVRKRSVS NSTQTSSSSS QSETSSAVST PSPVTRTRSL STCNKRVGMV LEGFDPFSQS TLNNVTEQNY KNRESYPEDT VFYIPEDHKP GTFPKALSHG SFCPSGNSSV NWRTGSFHGP GHLSLRRENS HDSPKELKRR NSSSSLSSRL SIYDNVPGSI LYSSSGELAD LENEDIFPEL DDILYHVKGM QRIVNQWSEK FSDEGDSDSA LDSVSPCPSS PKQIHLDVDH DRRTPSDLDS TGNSLNEPEE PTDIPERRDS GVGASLTRCN RHRLRWHSFQ SSHRPSLNSV SLQINCQSVQ QMNLQKQYSL LKL TALLEKY TPSNKHGFSW AVPKFMKRIK VPDYKDRSVF GVPLTVNVQR SGQPLPQSIQ QAMRYLRNHC LDQVGLFRKS GVKSRIQALR QMNESAEDNV NYEGQSAYDV ADMLKQYFRD</p>

Product Details

LPEPLMTNKL SETFLQIQY VPKDQRLQAI KAAIMLLPDE NREVLQTLTY FLSDVTA AVK
ENQMTPTNLA VCLAPSLFHL NTLKRENSSP RVMQRKQSLG KPDQKDLNEN LAATQGLAHM
IAECKKLFQV PEEMSRCRNS YTEQELKPLT LEALGHLNSD QPADYRHFQ DCVDGLFKEV
KEKFKGWVSY PTSEQADLSY KKVSEGPPLR LWRSTIEVPA APEEILKRLL KEQLWDVDL
LDSKVIEILD SQTEIQYVQ NSMAPHPARD YVVLRTWRN LPRGACALLL TSVDHDRAPV
AGVRVNVLLS RYLIEPCGSG KSKLTYMCRA DLRGHMPEWY SKSFGHLCAA EVVKIRDSFS
NQNTESKDTR SR **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: DLC1

Alternative Name: Dlc1 ([DLC1 Products](#))

Background: Rho GTPase-activating protein 7 (Deleted in liver cancer 1 protein homolog) (DLC-1) (Rho-type GTPase-activating protein 7) (START domain-containing protein 12) (StARD12) (StAR-related

Target Details

lipid transfer protein 12),FUNCTION: Functions as a GTPase-activating protein for the small GTPases RHOA, RHOB, RHOC and CDC42, terminating their downstream signaling. This induces morphological changes and detachment through cytoskeletal reorganization, playing a critical role in biological processes such as cell migration and proliferation. Also functions in vivo as an activator of the phospholipase PLCD1. Active DLC1 increases cell migration velocity but reduces directionality (By similarity). Required for growth factor-induced epithelial cell migration, in resting cells, interacts with TNS3 while PTEN interacts with the p85 regulatory subunit of the PI3K kinase complex but growth factor stimulation induces phosphorylation of TNS3 and PTEN, causing them to change their binding preference so that PTEN interacts with DLC1 and TNS3 interacts with p85 (By similarity). The PTEN-DLC1 complex translocates to the posterior of migrating cells to activate RHOA while the TNS3-p85 complex translocates to the leading edge of migrating cells to promote RAC1 activation (By similarity). {ECO:0000250|UniProtKB:Q96QB1}.

Molecular Weight: 123.4 kDa

UniProt: [Q9R0Z9](#)

Pathways: [Tube Formation, Positive Regulation of Endopeptidase Activity](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months