

Anti-DLC1 Antibody
Catalog # AP54115**Specification**

Anti-DLC1 Antibody - Product Information

Application	WB, IHC, IF
Primary Accession	Q96QB1
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	170591

Anti-DLC1 Antibody - Additional Information**Gene ID** 10395**Other Names**

ARHGAP7; KIAA1723; STARD12; Rho GTPase-activating protein 7; Deleted in liver cancer 1 protein; DLC-1; HP protein; Rho-type GTPase-activating protein 7; START domain-containing protein 12; StARD12; StAR-related lipid transfer protein 12

Target/Specificity

Recognizes endogenous levels of DLC1 protein.

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-DLC1 Antibody - Protein Information**Name** DLC1**Synonyms** ARHGAP7, KIAA1723, STARD12**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. 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 (PubMed:26166433). 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 (PubMed:26166433).

Cellular Location

Cytoplasm. Cell junction, focal adhesion. Membrane; Peripheral membrane protein

Note=Colocalizes with EF1A1 at actin-rich regions in the cell periphery

Tissue Location

Highest level of expression in the spleen, with rather lower levels in prostate, testis, ovary, small intestine and colon, but none in the thymus

Anti-DLC1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-DLC1 Antibody - Images**Anti-DLC1 Antibody - Background**

Rabbit polyclonal antibody to DLC1