

Rabbit anti-Human, Mouse DLC1 Polyclonal Antibody | anti-DLC1 antibody

DLC1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326457	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

DLC1; Polyclonal Antibody; DLC1 Antibody; ARHGAP 7; ARHGAP7; Deleted in liver cancer 1; Deleted in liver cancer 1 protein; DLC 1; Dlc-1; DLC1 Rho GTPase activating protein; FLJ21120; HP; HP protein; KIAA1723; p122 RhoGAP; RHG07_HUMAN; Rho GTPase activating protein 7; Rho GTPase-activating protein 7; Rho type GTPase activating protein 7; Rho-type GTPase-activating protein 7; StAR related lipid transfer (START) domain containing 12; StAR related lipid transfer protein 12; StAR-related lipid transfer protein 12; STARD 12; STARD12; START domain containing protein 12; START domain-containing protein 12; anti-DLC1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	DLC1 antibody detects endogenous levels of total DLC1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1017
Applicable Applications for anti-DLC1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human DLC1
Subcellular Location	Cytoplasm.
Tissue Specificity	Highest level of expression in the spleen, with rather lower levels in prostate, testis, ovary, small intestine and colon, but none in the thymus.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA326457 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA326457 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts of mouse lung, using DLC1 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-DLC1 antibody	Description: This gene encodes a GTPase-activating protein (GAP) that is a member of the rhoGAP family of proteins which play a role in the regulation of small GTP-binding proteins. GAP family proteins participate in signaling pathways that regulate cell processes involved in cytoskeletal changes. This gene functions as a tumor suppressor gene in a number of common cancers, including prostate, lung, colorectal, and breast cancers. Multiple transcript variants due to alternative promoters and alternative splicing have been found for this gene. 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. Subunit Structure: Interacts with EF1A1, facilitates EF1A1 distribution to the membrane periphery and ruffles upon growth factor stimulation and suppresses cell migration. Similarity: The SAM domain mediates interaction with EF1A1, and functions as an autoinhibitory regulator of RhoGAP Activity. The polybasic cluster is required for activation and mediates binding to phosphatidylinositol-4, 5-bisphosphate (PI(4, 5)P2) containing membranes.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	256017153
NCBI GeneID	10395
NCBI Accession #	NP_001157743.1
NCBI GenBank Nucleotide #	NM_001164271.1
UniProt Accession #	Q96QB1; O14868; O43199; Q7Z5R8; Q86UC6; Q9C0E0; Q9H7A2; B4DR10; B8PTI0; E9PDZ8; E9PF76; E9PGY9
Molecular Weight	Observed: 171 kDa Predicted: 171 kDa
NCBI Official Full Name	rho GTPase-activating protein 7 isoform 4
NCBI Official Synonym Full Names	DLC1 Rho GTPase activating protein
NCBI Official Symbol	DLC1
NCBI Official Synonym Symbols	HP; ARHGAP7; STARD12; p122-RhoGAP
NCBI Protein Information	rho GTPase-activating protein 7
UniProt Protein Name	Rho GTPase-activating protein 7
UniProt Gene Name	DLC1
UniProt Synonym Gene Names	ARHGAP7; KIAA1723; STARD12; DLC-1; StARD12

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.