

Anti-DLC-1 antibody



Description	Rabbit polyclonal to DLC-1.
Model	STJ92721
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IF, IHC
Immunogen	Synthesized peptide derived from human DLC-1
Immunogen Region	30-110 aa, N-terminal
Gene ID	10395
Gene Symbol	DLC1
Dilution range	IHC 1:100-1:300IF 1:200-1:1000ELISA 1:10000
Specificity	DLC-1 Polyclonal Antibody detects endogenous levels of DLC-1 protein.
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.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	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
Molecular Weight	122.827 kDa

Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:28970MIM:604258
Alternative Names	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
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.
Sequence and Domain Family	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)P(2)) containing membranes.
Cellular Localization	Cytoplasm. Cell junction, focal adhesion. Membrane. Peripheral membrane protein. Colocalizes with EF1A1 at actin-rich regions in the cell periphery.