Datasheet for ABIN968714

anti-DLC1 antibody (AA 47-249)

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Overview

Quantity:	50 µg
Target:	DLC1
Binding Specificity:	AA 47-249
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This DLC1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human DLC-1 aa. 47-249
Clone:	3-DLC
Isotype:	IgG1
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 3. Source of all serum proteins is from USDA inspected abattoirs located in the United States. 4. Please refer to us for technical protocols.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	DLC1
Alternative Name:	DLC-1 (DLC1 Products)
Background:	Members of the Ras superfamily of GTPases are distantly related to the heterotrimeric G proteins and shuttle between inactive and active GTP-bound forms. Conversion between these forms is controlled by guanine nucleotide exchange factors (GEFs) and GTPase-activating proteins (GAPs). Rho is a GTPase that regulates cell morphology and motility in response to extracellular signals. p190A, p190B, and p122 RhoGAPs all contain RhoGAP domains and regulate the GTPase activity of Rho. p122 RhoGAP exhibits GAP activity for RhoA, but not Rac1, and binds and activates PLC-delta1. Microinjection of p122 RhoGAP suppresses LPA-induced formation of stress fibers and focal adhesions. Deleted in liver cancer-1 (DLC-1) was identified by its frequent deletion in liver cancer and is a human homologue of rat p122 RhoGAP. DLC-1 is expressed in many hepatocellular carcinoma tissues and cell lines and could be an important tumor suppressor gene. In normal human tissues, DLC-1 is expressed widely with the highest expression in heart and lung. Both p122 RhoGAP and DLC-1 have RhoGAP domains toward their C-terminal regions, which is thought to be important for regulation of Rho GTPase activity in many tissues. This antibody is routinely tested by western blot analysis.
Molecular Weight:	123 kDa
Pathways:	Tube Formation, Positive Regulation of Endopeptidase Activity

Application Details

Comment:	Related Products: ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Handling

Storage Comment:	Store undiluted at -20° C.

Publications

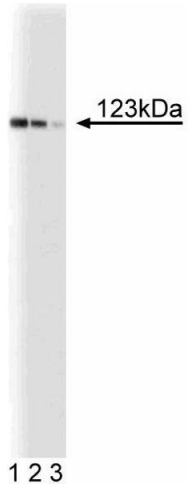
Product cited in:

Sekimata, Kabuyama, Emori, Homma: "Morphological changes and detachment of adherent cells induced by p122, a GTPase-activating protein for Rho." in: **The Journal of biological chemistry**, Vol. 274, Issue 25, pp. 17757-62, (1999) (PubMed).

Yuan, Miller, Keck, Zimonjic, Thorgeirsson, Popescu: "Cloning, characterization, and chromosomal localization of a gene frequently deleted in human liver cancer (DLC-1) homologous to rat RhoGAP." in: **Cancer research**, Vol. 58, Issue 10, pp. 2196-9, (1998) (PubMed).

Homma, Emori: "A dual functional signal mediator showing RhoGAP and phospholipase C-delta stimulating activities." in: **The EMBO journal**, Vol. 14, Issue 2, pp. 286-91, (1995) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of DLC-1 on a SK-Hep-1 (human liver adenocarcinoma) lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the anti- human DLC-1 antibody.