

Lfc Polyclonal Antibody

Catalog No: YT2556

Reactivity: Human; Mouse; Rat

Applications: WB;ELISA;IHC

Target: Lfc

Fields: >>Tight junction;>>Pathogenic Escherichia coli infection;>>Shigellosis;>>Fluid

shear stress and atherosclerosis

Gene Name: ARHGEF2

Protein Name: Rho guanine nucleotide exchange factor 2

Q92974

Q60875

Human Gene Id: 9181

Human Swiss Prot

No:

Mouse Gene Id: 16800

Mouse Swiss Prot

No:

Rat Gene Id: 310635

Rat Swiss Prot No: Q5FVC2

Immunogen: The antiserum was produced against synthesized peptide derived from C-ternal

human ARHGEF2. AA range:851-900

Specificity: Lfc Polyclonal Antibody detects endogenous levels of Lfc protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution : WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000

1/4



Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

-15°C to -25°C/1 year(Do not lower than -25°C) Storage Stability:

Observed Band: 111kD

Regulation of Actin Dynamics; AMPK **Cell Pathway:**

Background: Rho GTPases play a fundamental role in numerous cellular processes that are

> initiated by extracellular stimuli that work through G protein coupled receptors. The encoded protein may form complex with G proteins and stimulate rhodependent signals. Alternatively spliced transcript variants encoding different

isoforms have been identified.[provided by RefSeq, Jun 2009],

Function: domain: The DH (DBL-homology) domain interacts with and promotes loading of

> GTP on RhoA.,domain:The PH (pleckstrin-homology) domain is involved in microtubule binding and targeting to tight junctions., function: Activates Rho-GTPases by promoting the exchange of GDP for GTP. May be involved in epithelial barrier permeability, cell motility and polarization, dendritic spine morphology, antigen presentation, leukemic cell differentiation, cell cycle regulation, and cancer. Binds Rac-GTPases, but does not seem to promote nucleotide exchange activity toward Rac-GTPases, which was uniquely reported in PubMed:9857026. May stimulate instead the cortical activity of Rac. Inactive

entry, PTM: Phosphorylation of Ser-886 by PAK1 induces binding to protein 14-3-3

zeta, promoting its relocation to microtubules and the inhibition of its activit

toward CDC42, TC10, or Ras-GTPases., online information: ARHGEF2

Cytoplasm, cytoskeleton. Cytoplasm. Cell junction, tight junction. Golgi Subcellular Location:

apparatus. Cytoplasm, cytoskeleton, spindle. Cell projection, ruffle membrane. Cytoplasmic vesicle. Localizes to the tips of cortical microtubules of the mitotic

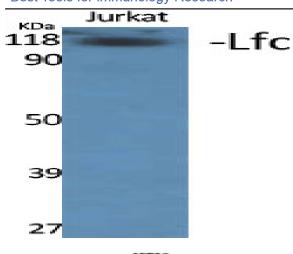
spindle during cell division, and is further released upon microtubule

depolymerization (PubMed:15827085). Recruited into membrane ruffles induced by S.flexneri at tight junctions of polarized epithelial cells (PubMed:19043560). Colocalized with NOD2 and RIPK2 in vesicles and with the cytoskeleton

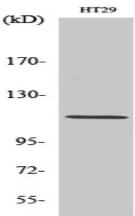
(PubMed:21887730)...

Expression: Brain, Cervix carcinoma, Epithelium, Platelet,

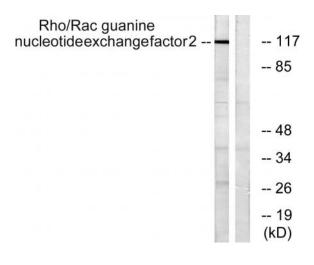
Products Images



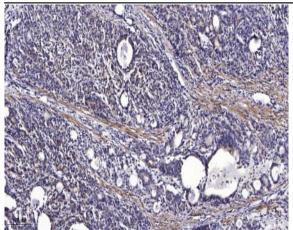
Western Blot analysis of various cells using Lfc Polyclonal Antibody diluted at 1:1000



Western Blot analysis of HT29 cells using Lfc Polyclonal Antibody diluted at 1:1000



Western blot analysis of lysates from NIH/3T3 cells, using Rho/Rac Guanine Nucleotide Exchange Factor 2 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human Gastric adenocarcinoma. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).