

## Lfc Polyclonal Antibody

<b>Catalog No :</b>	YT2555
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	Lfc
<b>Fields :</b>	>>Tight junction;>>Pathogenic Escherichia coli infection;>>Shigellosis;>>Fluid shear stress and atherosclerosis
<b>Gene Name :</b>	ARHGEF2
<b>Protein Name :</b>	Rho guanine nucleotide exchange factor 2
<b>Human Gene Id :</b>	9181
<b>Human Swiss Prot No :</b>	Q92974
<b>Mouse Swiss Prot No :</b>	Q60875
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from in-ternal human ARHGEF2. AA range:383-432
<b>Specificity :</b>	Lfc Polyclonal Antibody detects endogenous levels of Lfc protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 101kD

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

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**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 rho-dependent signals. Alternatively spliced transcript variants encoding different isoforms have been identified.[provided by RefSeq, Jun 2009],

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

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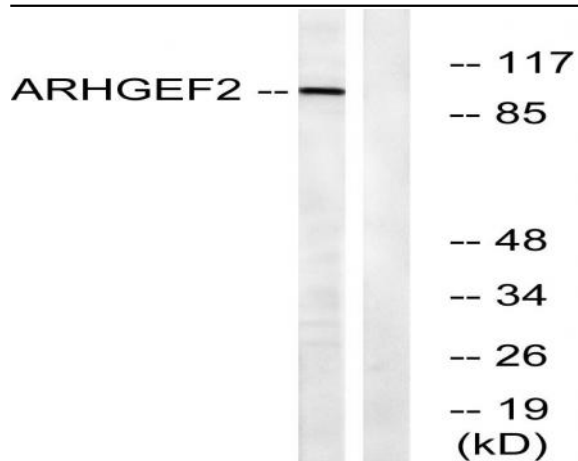
**Subcellular Location :** Cytoplasm, cytoskeleton . Cytoplasm . Cell junction, tight junction . Golgi apparatus . Cytoplasm, cytoskeleton, spindle . Cell projection, ruffle membrane . Cytoplasmic vesicle . Localizes to the tips of cortical microtubules of the mitotic spindle during cell division, and 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). .

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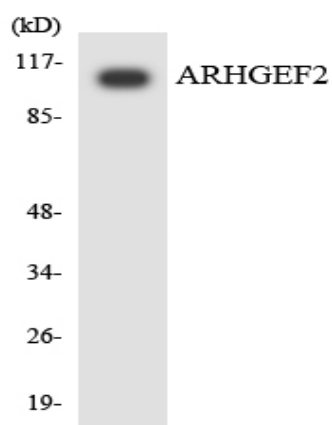
**Expression :** Brain,Cervix carcinoma,Epithelium,Platelet,

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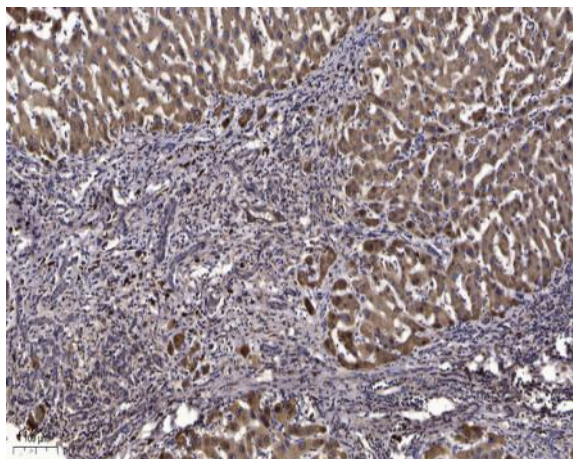
## Products Images



Western blot analysis of lysates from RAW264.7 cells, using ARHGEF2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from COLO205 cells using ARHGEF2 antibody.



Immunohistochemical analysis of paraffin-embedded human liver cancer. 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).