# **Product Name: Lfc Rabbit Polyclonal Antibody**

Catalog #: APRab13283



### **Summary**

Production Name Lfc Rabbit Polyclonal Antibody

**Description** Rabbit Polyclonal Antibody

Host Rabbit
Application WB,ELISA

**Reactivity** Human, Rat, Mouse

#### **Performance**

ConjugationUnconjugatedModificationUnmodified

**Isotype** IgG

ClonalityPolyclonalFormLiquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

**Buffer** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

**Purification** Affinity purification

#### **Immunogen**

Gene Name ARHGEF2

ARHGEF2; KIAA0651; LFP40; Rho guanine nucleotide exchange factor 2; Guanine

Alternative Names nucleotide exchange factor H1; GEF-H1; Microtubule-regulated Rho-GEF; Proliferating

cell nucleolar antigen p40

**Gene ID** 9181.0

Q92974.The antiserum was produced against synthesized peptide derived from in-SwissProt ID

ternal human ARHGEF2. AA range:383-432

## **Application**

**Dilution Ratio** WB 1:500 - 1:2000. ELISA: 1:20000

Molecular Weight 101kD

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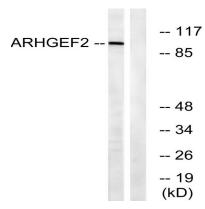
#### **Background**

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 rhodependent signals. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jun 2009], 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 activity. Phosphorylated by STK6 and CDK1 during mitosis, which negatively regulates its activity. Phosphorylation by MAPK1 or MAPK3 increases nucleotide exchange activity. Phosphorylation by PAK4 releases GEF-H1 from the microtubules., sequence caution: Sequence differs at a large extent from the sequence shown in the paper, similarity: Contains 1 DH (DBL-homology) domain, similarity: Contains 1 PH domain, similarity: Contains 1 phorbol-ester/DAG-type zinc finger, subcellular location:Localizes to the tips of cortical microtubules of the mitotic spindle during cell division, and is further released upon microtubule depolymerization., subunit: Interacts with 14-3-3 zeta; when phosphorylated at Ser-886. Interacts with the kinases PAK4, AURKA/STK6 and MAPK1. Interacts with RHOA and RAC1.,

#### **Research Area**

Regulation of Actin Dynamics; AMPK

#### **Image Data**



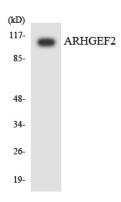
Western blot analysis of lysates from RAW264.7 cells, using ARHGEF2 Antibody. The lane on the right is blocked with the synthesized peptide.

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

#### Note

For research use only.