

RhoGEF p115 Polyclonal Antibody

Catalog No: YT4088

Reactivity: Human; Mouse; Rat

Applications: WB;ELISA;IHC

Target: RhoGEF p115

Fields: >>Vascular smooth muscle contraction;>>Platelet activation;>>Regulation of

actin cytoskeleton;>>Parathyroid hormone synthesis, secretion and

action;>>Pathogenic Escherichia coli infection;>>Yersinia infection;>>Human

cytomegalovirus infection;>>Pathways in cancer;>>Proteoglycans in

cancer;>>Lipid and atherosclerosis

Gene Name: ARHGEF1

Protein Name: Rho guanine nucleotide exchange factor 1

Q92888

Q61210

Human Gene Id: 9138

Human Swiss Prot

No:

Mouse Gene ld: 16801

Mouse Swiss Prot

No:

Rat Swiss Prot No: Q9Z116

Immunogen: The antiserum was produced against synthesized peptide derived from human

ARHGEF1. AA range:162-211

Specificity: RhoGEF p115 Polyclonal Antibody detects endogenous levels of RhoGEF p115

protein.

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

Source : Polyclonal, Rabbit,IgG

1/3



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

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

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

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

Observed Band: 105kD

Cell Pathway: Regulation of Actin Dynamics; AMPK

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. Multiple alternatively spliced transcript variants have been found for this gene, but the full-length nature of some variants has not been

defined. [provided by RefSeq, Jul 2008],

Function: domain: The DH domain is involved in interaction with CCPG1...domain: The

RGSL domain, also known as rgRGS domain, is necessary but not sufficient for GAP activity.,function:Seems to play a role in the regulation of RhoA GTPase by guanine nucleotide-binding alpha-12 (GNA12) and alpha-13 (GNA13) subunits.

Acts as GTPase-activating protein (GAP) for GNA12 and GNA13, and as guanine nucleotide exchange factor (GEF) for RhoA GTPase. Activated G alpha 13/GNA13 stimulates the RhoGEF activity through interaction with the RGS-like

domain. This GEF activity is inhibited by binding to activated

GNA12.,PTM:Phosphorylated by PKCA.,sequence caution:Contaminating sequence. Sequence of unknown origin in the N-terminal part.,similarity:Contains

1 DH (DBL-homology) domain., similarity: Contains 1 PH

domain., similarity: Contains 1 RGSL (RGS-like) domain., subcellular

location:Translocated to the membrane by activ

Subcellular Location :

Cytoplasm . Membrane . Translocated to the membrane by activated GNA13 or

LPA stimulation.

Expression : Ubiquitously expressed.

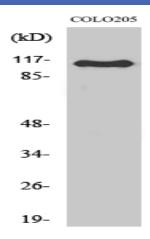
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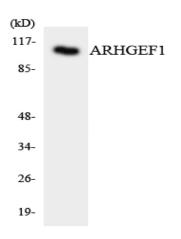
Host: Rabbit

Modifications: Unmodified

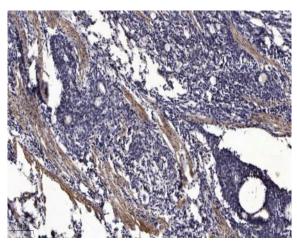
Products Images



Western Blot analysis of various cells using RhoGEF p115 Polyclonal Antibody



Western blot analysis of the lysates from HepG2 cells using ARHGEF1 antibody.



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).