Product Name: **RhoGEF p115 Rabbit Polyclonal Antibody**
Catalog #: **APRab17133**
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:50-1:300,ELISA 1:2000-1:20000
Molecular Weight	105kDa

Antigen Information

Gene Name	ARHGEF1
Alternative Names	ARHGEF1; Rho guanine nucleotide exchange factor 1; 115 kDa guanine nucleotide exchange factor; p115-RhoGEF; p115RhoGEF; Sub1.5
Gene ID	9138.0
SwissProt ID	Q92888
Immunogen	The antiserum was produced against synthesized peptide derived from human ARHGEF1. AA range:162-211

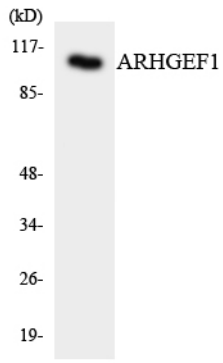
Background

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. 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],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 activated GNA13 or LPA stimulation.,subunit:Interacts with RHOA, GNA12 and GNA13. Homooligomerizes through the coiled coil region. May interact with CCPG1 (By similarity). Interacts with CTNNAL1.,tissue specificity:Ubiquitously expressed.,

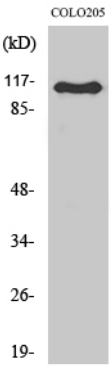
Research Area

Regulation of Actin Dynamics; AMPK

Image Data



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



Western Blot analysis of various cells using RhoGEF p115 Polyclonal Antibody