



RhoGEF p115 Polyclonal Antibody

Catalog No	BYab-16247
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA;IHC
Gene Name	ARHGEF1
Protein Name	Rho guanine nucleotide exchange factor 1
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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000;IHC-p 1:50-300; ELISA 2000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ARHGEF1; Rho guanine nucleotide exchange factor 1; 115 kDa guanine nucleotide exchange factor; p115-RhoGEF; p115RhoGEF; Sub1.5
Observed Band	105kD
Cell Pathway	Cytoplasm . Membrane . Translocated to the membrane by activated GNA13 or LPA stimulation.
Tissue Specificity	Ubiquitously expressed.
Function	domain:The DH domain is involved in interaction with CCPG1.,domain:The RGS 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

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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

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],

matters needing attention

Avoid repeated freezing and thawing!

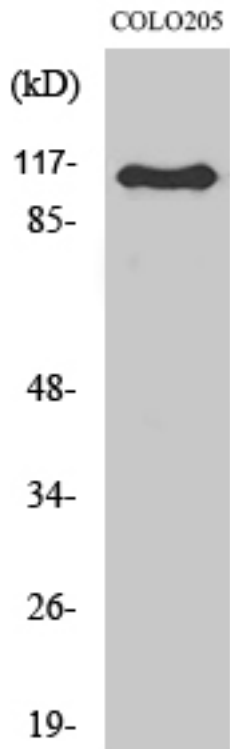
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

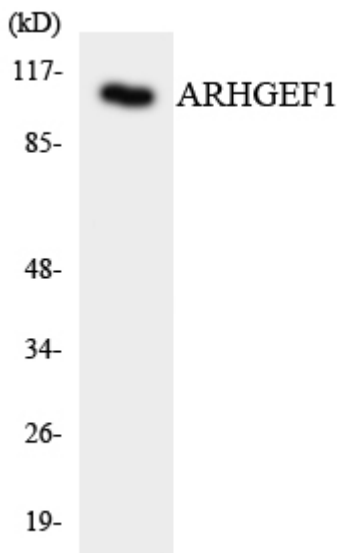
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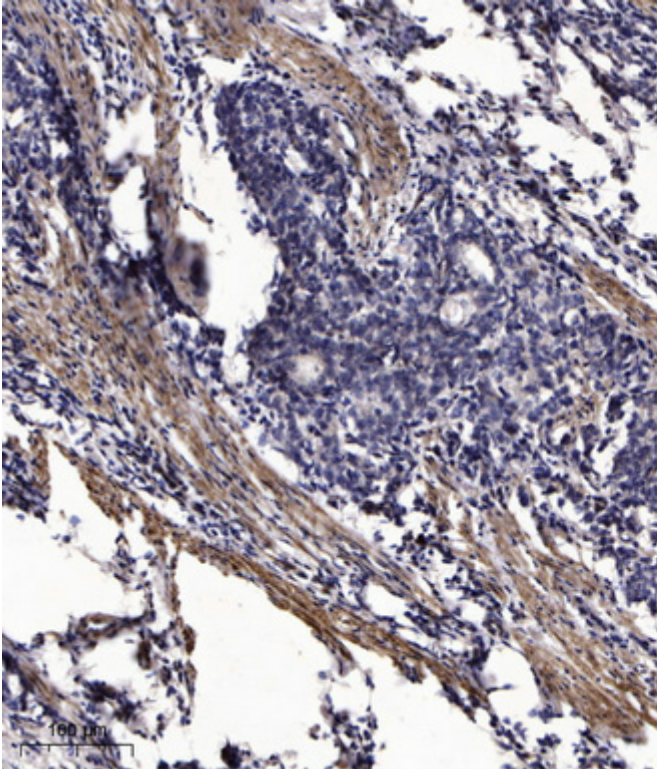
Products Images



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).