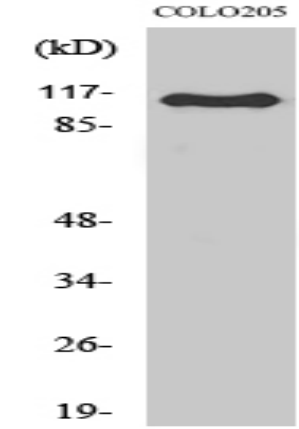
Best Tools for immunology Research

RhoGEF p115 Polyclonal Antibody

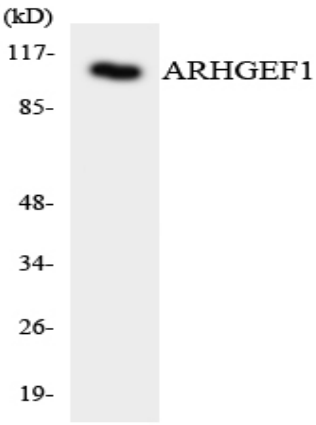
Catalog No :	YT4088
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA;IHC
Target :	RhoGEF p115
Fields :	>>Vascular smooth muscle contraction;>>Platelet activation;>>Regulation of actin cytoskeleton;>>Parathyroid hormone synthesis, secretion and action;>>Pathogenic Escherichia coli infection;>>Yersinia infection;>>Human cytomegalovirus infection;>>Pathways in cancer;>>Proteoglycans in cancer;>>Lipid and atherosclerosis
Gene Name :	ARHGEF1
Protein Name :	Rho guanine nucleotide exchange factor 1
Human Gene Id :	9138
Human Swiss Prot No :	Q92888
Mouse Gene Id :	16801
Mouse Swiss Prot No :	Q61210
Rat Swiss Prot No :	Q9Z1I6
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

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 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],
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.

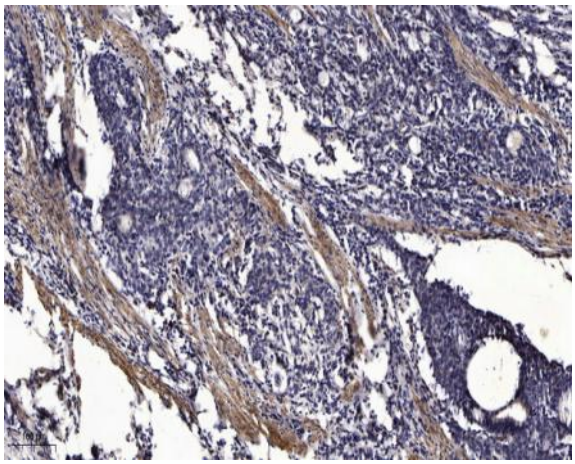
Products Images



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).