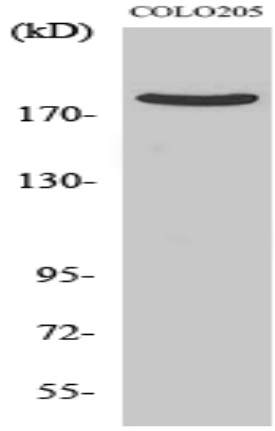
Best Tools for immunology Research

PDZ-RhoGEF Polyclonal Antibody

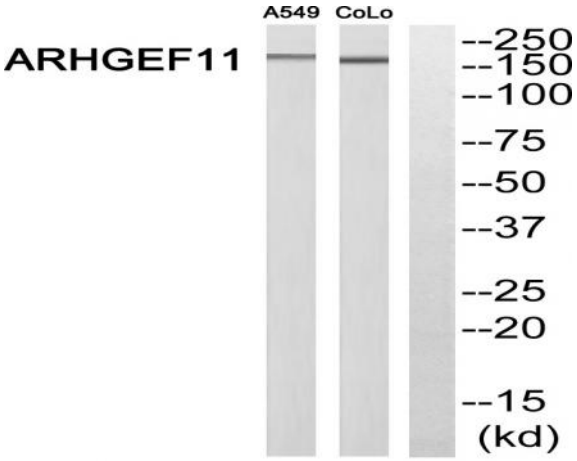
Catalog No :	YT3652
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC
Target :	PDZ-RhoGEF
Fields :	>>Vascular smooth muscle contraction;>>Parathyroid hormone synthesis, secretion and action;>>Pathogenic Escherichia coli infection;>>Human cytomegalovirus infection;>>Pathways in cancer
Gene Name :	ARHGEF11
Protein Name :	Rho guanine nucleotide exchange factor 11
Human Gene Id :	9826
Human Swiss Prot No :	O15085
Rat Gene Id :	78966
Rat Swiss Prot No :	Q9ES67
Immunogen :	The antiserum was produced against synthesized peptide derived from human ARHGEF11. AA range:198-247
Specificity :	PDZ-RhoGEF Polyclonal Antibody detects endogenous levels of PDZ-RhoGEF 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
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)
Molecularweight :	168kD
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 a complex with G proteins and stimulate Rho-dependent signals. A similar protein in rat interacts with glutamate transporter EAAT4 and modulates its glutamate transport activity. Expression of the rat protein induces the reorganization of the actin cytoskeleton and its overexpression induces the formation of membrane ruffling and filopodia. Two alternative transcripts encoding different isoforms have been described. [provided by RefSeq, Jul 2008],
Function :	domain:The poly-Pro region is essential for plasma membrane localization upon stimulation.,function:May play a role in the regulation of RhoA GTPase by guanine nucleotide-binding alpha-12 (GNA12) and alpha-13 (GNA13). Acts as guanine nucleotide exchange factor (GEF) for RhoA GTPase and may act as GTPase-activating protein (GAP) for GNA12 and GNA13.,similarity:Contains 1 DH (DBL-homology) domain.,similarity:Contains 1 PDZ (DHR) domain.,similarity:Contains 1 PH domain.,similarity:Contains 1 RGSL (RGS-like) domain.,subcellular location:Translocated to the membrane upon stimulation.,subunit:Interacts with GNA12 and GNA13 through the RGS domain. Interacts with RHOA, PLXNB1 and PLXNB2. Interacts with SLC1A6.,tissue specificity:Ubiquitously expressed.,
Subcellular Location :	Cytoplasm . Membrane . Translocated to the membrane upon stimulation.
Expression :	Ubiquitously expressed.

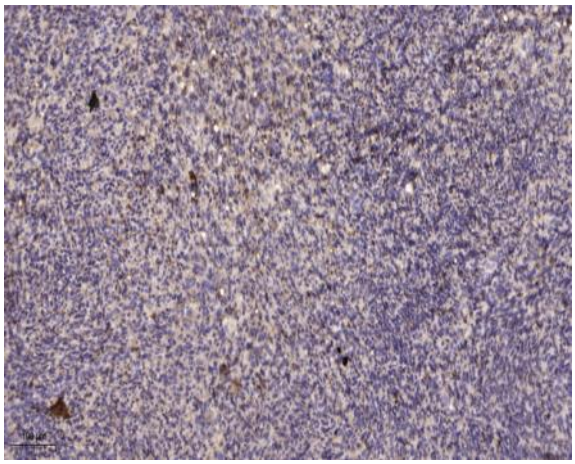
Products Images



Western Blot analysis of various cells using PDZ-RhoGEF Polyclonal Antibody



Western blot analysis of ARHGEF11 Antibody. The lane on the right is blocked with the ARHGEF11 peptide.



Immunohistochemical analysis of paraffin-embedded human uterus. 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).