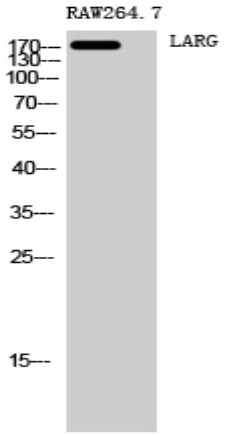
Best Tools for immunology Research

LARG Polyclonal Antibody

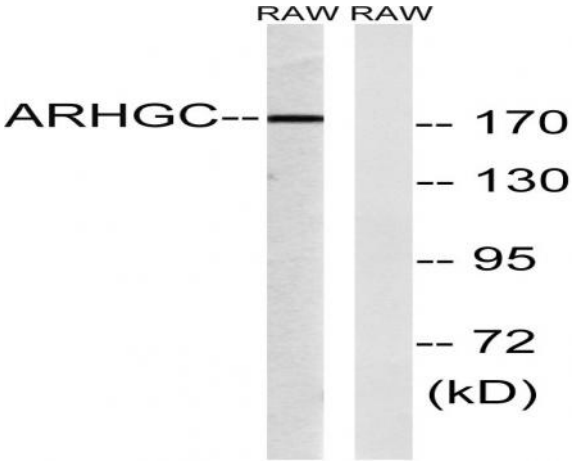
Catalog No :	YT2535
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC
Target :	LARG
Fields :	>>Vascular smooth muscle contraction;>>Axon guidance;>>Platelet activation;>>C-type lectin receptor signaling pathway;>>Regulation of actin cytoskeleton;>>Pathogenic Escherichia coli infection;>>Yersinia infection;>>Tuberculosis;>>Human cytomegalovirus infection;>>Pathways in cancer;>>Proteoglycans in cancer
Gene Name :	ARHGEF12
Protein Name :	Rho guanine nucleotide exchange factor 12
Human Gene Id :	23365
Human Swiss Prot No :	Q9NZN5
Mouse Swiss Prot No :	Q8R4H2
Immunogen :	The antiserum was produced against synthesized peptide derived from human ARHGEF12. AA range:449-498
Specificity :	LARG Polyclonal Antibody detects endogenous levels of LARG 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)
Observed Band :	173kD
Cell Pathway :	Regulation of Actin Dynamics; AMPK
Background :	Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli working through G protein-coupled receptors. The encoded protein may form a complex with G proteins and stimulate Rho-dependent signals. This protein has been observed to form a myeloid/lymphoid fusion partner in acute myeloid leukemia. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014],
Function :	disease:A chromosomal aberration involving ARHGEF12 may be a cause of acute leukemia. Translocation t(11;11)(q23;23) with MLL.,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.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,sequence caution:Contaminating sequence. Potential poly-A sequence.,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, probably through the RGS-like domain. Interacts with RHOA, PLXNB1 and PLXNB2. Interacts through its PDZ domain
Subcellular Location :	Cytoplasm . Membrane . Translocated to the membrane upon stimulation. .
Expression :	Ubiquitously expressed. Isoform 2 is found in jejunum and testis.

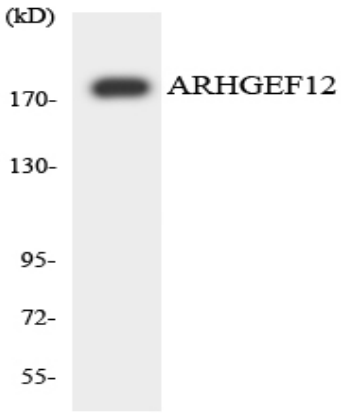
Products Images



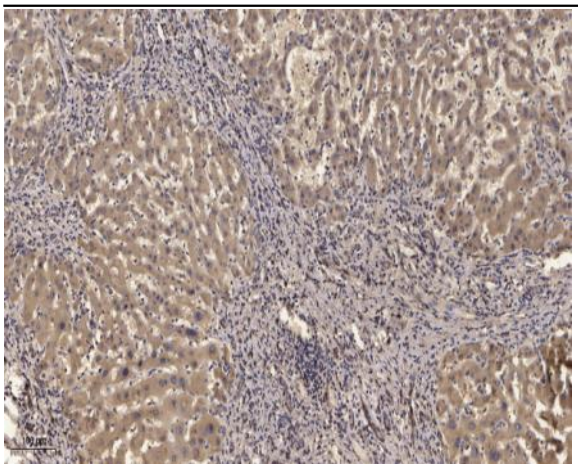
Western Blot analysis of RAW264.7 cells using LARG Polyclonal Antibody



Western blot analysis of lysates from RAW264.7 cells, using ARHGEF12 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HUVECcells using ARHGEF12 antibody.



Immunohistochemical analysis of paraffin-embedded human liver cancer. 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).