

LARG Rabbit pAb

Catalog # AP99693

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9NZN5
Other Accession	Q9NZN5
Host	Rabbit
Clonality	Polyclonal
Calculated MW	173232
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LARG
Epitope Specificity	515-615/1544
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 DH (DBL-homology) domain.Contains 1 PDZ (DHR) domain.Contains 1 PH domain.Contains 1 RGSL (RGS-like) domain.
SUBUNIT	Interacts with GNA12 and GNA13, probably through the RGS-like domain, with RHOA, PLXNB1 and PLXNB2, and through its PDZ domain with IGF1R beta subunit.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
DISEASE	Note=A chromosomal aberration involving ARHGEF12 may be a cause of acute leukemia. Translocation t(11;11)(q23;23) with MLL.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. This protein is observed to form myeloid/lymphoid fusion partner in acute myeloid leukemia (from EntrezGene). LARG has also been implicated in linking heterotrimeric G proteins to microtubule organisation in regulation of cell polarity.

Additional Information

Gene ID	23365
Other Names	ARHGC_HUMAN; ARHGEF12; Leukemia-associated RhoGEF; KIAA0382; LARG; ARHGC_MOUSE; Rho guanine nucleotide exchange factor 12; Rho guanine nucleotide exchange factor (GEF) 12
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ARHGEF12 (HGNC:14193)
Function	Acts as guanine nucleotide exchange factor (GEF) for RhoA GTPase and may act as GTPase-activating protein (GAP) for GNA12 and GNA13 (PubMed: 11094164). May play a role in the regulation of RhoA GTPase by guanine nucleotide-binding alpha-12 (GNA12) and alpha-13 (GNA13) (PubMed: 11094164). Promotes endothelial cell and actin stress fiber reorientation in response to mechanotransduction (By similarity).
Cellular Location	Cytoplasm. Membrane. Note=Translocated to the membrane upon stimulation.
Tissue Location	Ubiquitously expressed. Isoform 2 is found in jejunum and testis

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