



Rabbit Anti-LARG antibody

SL4213R

Product Name:	LARG
Chinese Name:	Rho的鸟嘌呤核苷酸交换因子12抗体
Alias:	ARHGEF12; KIAA0382; leukemia-associated rho guanine nucleotide exchange factor; Leukemia-associated RhoGEF; PRO2792; Rho guanine exchange factor (GEF) 12; Rho guanine nucleotide exchange factor (GEF) 12; Rho guanine nucleotide exchange factor 12; Similar to Mouse Lsc oncogene; ARHGC_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	173kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human LARG corresponding to amino acids 535-583.:515-615/1544
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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.

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.

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.

Subcellular Location:

Cytoplasm. Membrane.

Tissue Specificity:

Expressed in brain, predominantly in neuronal cell bodies.

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.

Similarity:

Contains 1 DH (DBL-homology) domain.

Contains 1 PDZ (DHR) domain.

Contains 1 PH domain.

Contains 1 RGSL (RGS-like) domain.

SWISS:

Q9NZN5

Gene ID:

23365

Database links:

[Entrez Gene: 23365](#)Human

[Entrez Gene: 69632](#)Mouse

[Entrez Gene: 367072](#)Rat

[Omim: 604763](#)Human

[SwissProt: Q9NZN5](#)Human

[SwissProt: Q8R4H2](#)Mouse

[Unigene: 24598](#)Human

[Unigene: 275266](#)Mouse

[Unigene: 129752](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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