



Rabbit Anti-ARHGAP15 antibody

SL12519R

Product Name:	ARHGAP15
Chinese Name:	Rho GTP酶激活蛋白15抗体
Alias:	ArhGAP15; BM046; Rho GTPase activating protein 15; Rho type GTPase activating protein 15; RHG15_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=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:	55kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ARHGAP15:201-300/861
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, which play fundamental roles in numerous cellular processes, are initiated by external stimuli that signal through G-protein coupled receptors. ARHGEF15 (Rho guanine nucleotide exchange factor (GEF) 15), also known as ARGEF15 or Vsm-RhoGEF, is a 841 amino acid protein expressed in the vascular smooth muscle of coronary artery. ARHGEF15 functions as a specific guanine nucleotide exchange factor for RhoA and interacts with ephrin-A4 in vascular smooth

muscle cells. Containing one DH (DBL-homology) domain, ARHGEF15 is phosphorylated on tyrosine residues upon ephrin-A1 stimulation. The DH domain consists of a region of about 150 amino acids that induces Rho family GTPases to release GDP. This effectively activates the Rho GTPase by allowing GTP binding. ARHGEF15 is encoded by a gene located on human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes.

Function:

ARHGAP15 is an activator for the Rho-type GTPases by converting them to an inactive GDP-bound state. Overexpression results in an increase in actin stress fibers and cell contraction.

Subcellular Location:

Cytoplasm. Membrane; Peripheral membrane protein

Similarity:

Contains 1 PH domain.

Contains 1 Rho-GAP domain.

SWISS:

Q53QZ3

Gene ID:

55843

Database links:

[Entrez Gene: 55843](#)Human

[Omim: 610578](#)Human

[SwissProt: Q53QZ3](#)Human

[Unigene: 171011](#)Human

Important Note:

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