ARHGEF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ARHGEF1, Polyclonal Antibody
Full Product Name	ARHGEF1 Rabbit pAb
Product Gene Name	anti-ARHGEF1 antibody
Product Synonym Names	LSC; GEF1; LBCL2; SUB1.5; P115-RHOGEF
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	102kDa
OMIM	601855
3D Structure	ModBase 3D Structure for Q92888
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 783-912 of human ARHGEF1 (NP_004697.2).
Cellular Localization	Cytoplasm, Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ARHGEF1 antibody	Western Blot (WB)
Application Notes for anti-ARHGEF1 antibody	WB: 1:500-1:2000
Related Product Information for anti-ARHGEF1 antibody	Seems to play a role in the regulation of RhoA GTPase by guanine nucleotide-binding alpha-12 (GNA12) and alpha-13 (GNA13) subunits. Acts as GTPase-activating protein (GAP) for GNA12 and GNA13, and as guanine nucleotide exchange factor (GEF) for RhoA GTPase. Activated G alpha 13/GNA13 stimulates the RhoGEF activity through interaction with the RGS-like domain. This GEF activity is inhibited by binding to activated GNA12. Mediates angiotensin-2-induced RhoA activation.
Other Notes	Small volumes of anti-ARHGEF1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ARHGEF1 purchase	MBS8549408 is an antibody targeting ARHGEF1. Also known as ARHGEF1 Rabbit pAb. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ARHGEF1. It may not necessarily be applicable to this product.

NCBI GI #	15011972

NCBI GeneID	9138
NCBI Accession #	NP_004697.2
UniProt Primary Accession #	Q92888
UniProt Related Accession #	Q92888
GenBank Nucleotide #	NP_004697.2
NCBI Official Full Name	rho guanine nucleotide exchange factor 1 isoform 2
NCBI Official Synonym Full Names	Rho guanine nucleotide exchange factor 1
NCBI Official Symbol	ARHGEF1
NCBI Official Synonym Symbols	LSC; GEF1; IMD62; LBCL2; SUB1.5; P115-RHOGEF
UniProt Protein Name	Rho guanine nucleotide exchange factor 1
UniProt Synonym Protein Names	115 kDa guanine nucleotide exchange factor; p115-RhoGEF; p115RhoGEF; Sub1.5
Protein Family	Rho guanine nucleotide exchange factor
UniProt Gene Name	ARHGEF1
UniProt Synonym Gene Names	p115-RhoGEF; p115RhoGEF
UniProt Entry Name	ARHG1_HUMAN
NCBI Protein Information	rho guanine nucleotide exchange factor 1
NCBI Summary for ARHGEF1	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 complex with G proteins and stimulate Rho-dependent signals. Multiple alternatively spliced transcript variants have been found for this gene, but the full-length nature of some variants has not been defined. [provided by RefSeq, Jul 2008]
UniProt Comments for ARHGEF1	ARHGEF1: Seems to play a role in the regulation of RhoA GTPase by guanine nucleotide-binding alpha-12 (GNA12) and alpha-13 (GNA13) subunits. Acts as GTPase-activating protein (GAP) for GNA12 and GNA13, and as guanine nucleotide exchange factor (GEF) for RhoA GTPase. Activated G alpha 13/GNA13 stimulates the RhoGEF activity through interaction with the RGS-like domain. This GEF activity is inhibited by binding to activated GNA12. Mediates angiotensin-2- induced RhoA activation. Interacts with RHOA, GNA12 and GNA13. Homooligomerizes through the coiled coil region. May interact with CCPG1. Interacts with CTNNAL1. Ubiquitously expressed. 3 isoforms of the human protein are produced by alternative splicing. Protein type: GEFs, Rac/Rho; GEFs; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 19q13.13 Cellular Component: cytoplasm; plasma membrane; cytosol Molecular Function: Rho guanyl-nucleotide exchange factor activity; protein binding; GTPase activator activity Biological Process: cell proliferation; nerve growth factor receptor signaling pathway; negative regulation of axonogenesis; regulation of axonogenesis; Rho protein signal transduction
Research Articles on ARHGEF1	**1.** High ARHGEF1 expression is associated with asthmatic airway hyper-responsiveness.
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