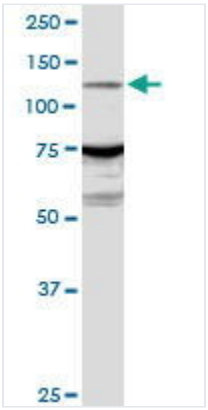
ARHGEF1 Antibody – Rabbit Polyclonal

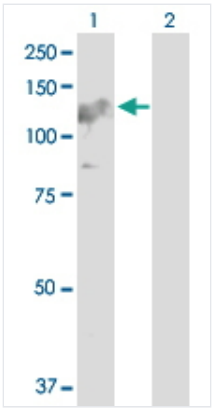
PRODUCT OVERVIEW

Product Name	ARHGEF1, Polyclonal Antibody
Full Product Name	ARHGEF1 (Rho Guanine Nucleotide Exchange Factor 1, 115kD Guanine Nucleotide Exchange Factor, Sub1.5, p115-RhoGEF, p115RhoGEF) (FITC)
Product Gene Name	anti-ARHGEF1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human ARHGEF1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor
Molecular Weight	102,435 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (42387267..42411604). Location: 19q13.13
OMIM	601855
3D Structure	ModBase 3D Structure for Q92888
Immunogen	Full length human ARHGEF1, aa1-912 (NP_004697.2).
Immunogen Sequence	MEDFARGAASPGPSRPGLVPVSIIGAEDEDFENELETNSEEQNSQFQSLEQVKRRPAHLMALLQHVALQFEPGPLLCCLHADMLGSLGPKEAKKAFLDFY
Conjugate	FITC
Note	Preservative Free
Product Categories/Family for anti-ARHGEF1 antibody	Antibodies; GTPase; Rab; Ras; Rho Proteins
Applications Tested/Suitable for anti-ARHGEF1 antibody	Western Blot (WB)
Application Notes for anti-ARHGEF1 antibody	Applications are based on unconjugated antibody.

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 GTP
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 ne
Searchable Terms for ARHGEF1 purchase	MBS6370279 is an antibody targeting ARHGEF1. Also known as ARHGEF1 (Rho Guanine Nucleotide Exchange Factor 1, 115kD Guanine Nucleotide



Western Blot (WB) of anti-ARHGEF1 antibody
ARHGEF1 rabbit polyclonal antibody. Western Blot analysis of ARHGEF1 expression in A-431



Western Blot (WB) of anti-ARHGEF1 antibody
Western Blot analysis of ARHGEF1 expression in transfected 293T cell line by ARHGEF1 polyclonal antibody. Lane 1: ARHGEF1 transfected lysate (102.4kD). Lane 2: Non-transfected lysate.

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 Secondary Accession #	O00513; Q8N4J4; Q96BF4; Q96F17; Q9BSB1
UniProt Related Accession #	Q92888
GenBank Nucleotide #	NM_004706
NCBI Official Full Name	rho guanine nucleotide exchange factor 1 isoform 2
NCBI Official Synonym Full Names	Rho guanine nucleotide exchange factor (GEF) 1
NCBI Official Symbol	ARHGEF1
NCBI Official Synonym Symbols	LSC; GEF1; 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; p115RhoGEF; Lsc homolog; 115-kD protein; 115 kDa guanine nucleotide exchange factor
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 GEF1 expression is associated with metastasis of pancreatic cancer.
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