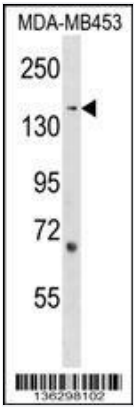
ARHGEF11 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ARHGEF11, Polyclonal Antibody
Full Product Name	ARHGEF11, ID (ARHGEF11, KIAA0380, Rho guanine nucleotide exchange factor 11, PDZ-RhoGEF) (AP)
Product Gene Name	anti-ARHGEF11 antibody
Product Synonym Names	ARHGEF11; KIAA0380; Rho guanine nucleotide exchange factor 11; PDZ-RhoGEF
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 Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	167,704 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (156904632..157015162, complement). Location: 1q21
OMIM	605708
3D Structure	ModBase 3D Structure for O15085
Immunogen	ARHGEF11 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 604-632 amino acids from the Central region of human ARHGEF11.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-ARHGEF11 antibody	Antibodies; PDZ Domain
Applications Tested/Suitable for anti-ARHGEF11 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ARHGEF11 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ARHGEF11 antibody	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. A similar protein in rat interacts with glutamate transporter EAAT4 and modulates its glutamate transport activity. Expression of the rat protein induces the reorganization of the actin cytoskeleton and its overexpression induces the formation of membrane ruffling and filopodia. Two alternative transcripts encoding different isoforms have been described.
Product References and Citations for anti-ARHGEF11 antibody	Akiyama, K., et al. J. Hum. Genet. (2010). In press: Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Ying, Z., et al. Arterioscler. Thromb. Vasc. Biol. 29(10):1657-1663(2009). Banerjee, J., et al. Biochemistry 48(33):8032-8043(2009). Zheng, M., et al. BMC Struct. Biol. 9, 36 (2009).

Other Notes	Small volumes of anti-ARHGEF11 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 ARHGEF11 purchase	MBS6274951 is an antibody targeting ARHGEF11. Also known as ARHGEF11, ID (ARHGEF11, KIAA0380, Rho guanine nucleotide exchange factor 11, PDZ-RhoGEF) (AP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ARHGEF11 antibody
ARHGEF11 Antibody (Center) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the ARHGEF11 antibody detected the ARHGEF11 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ARHGEF11. It may not necessarily be applicable to this product.

NCBI GI #	7662086
NCBI GeneID	9826
NCBI Accession #	NP_055599.1
UniProt Primary Accession #	O15085
UniProt Secondary Accession #	Q5VY40; Q6PFW2; D3DVD0
UniProt Related Accession #	O15085
GenBank Nucleotide #	NM_014784.3
NCBI Official Full Name	rho guanine nucleotide exchange factor 11 isoform 1
NCBI Official Synonym Full Names	Rho guanine nucleotide exchange factor (GEF) 11
NCBI Official Symbol	ARHGEF11
NCBI Official Synonym Symbols	GTRAP48; PDZ-RHOGEF
UniProt Protein Name	Rho guanine nucleotide exchange factor 11
UniProt Synonym Protein Names	PDZ-RhoGEF
Protein Family	Rho guanine nucleotide exchange factor
UniProt Gene Name	ARHGEF11
UniProt Synonym Gene Names	KIAA0380
UniProt Entry Name	ARHGB_HUMAN
NCBI Protein Information	rho guanine nucleotide exchange factor 11; Rho guanine exchange factor (GEF) 11; RhoGEF glutamate transport modulator; RhoA-specific guanine nucleotide exchange factor; glutamate transporter EAAT4-associated protein 48

UniProt Comments for ARHGEF11	ARHGEF11: 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. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; GEFs, Rac/Rho; GEFs Chromosomal Location of Human Ortholog: 1q21 Cellular Component: membrane; cytoplasm; intracellular; cytosol Molecular Function: Rho guanyl-nucleotide exchange factor activity; protein binding; G-protein-coupled receptor binding; GTPase activator activity Biological Process: axon guidance; striated muscle contraction; nerve growth factor receptor signaling pathway; positive regulation of apoptosis; positive regulation of transcription, DNA-dependent; cytokinesis; Rho protein signal transduction; G-protein coupled receptor protein signaling pathway; regulation of small GTPase mediated signal transduction; establishment of cell polarity; small GTPase mediated signal transduction; regulation of cell growth; actin cytoskeleton organization and biogenesis; cell motility
Research Articles on ARHGEF11	**1.** analysis of molecular activation mechanism of the RhoA-specific guanine nucleotide exchange factor, PDZRhoGEF
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