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ARHGEF11 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16930c

Product Information

Application	WB, E
Primary Accession	O15085
Other Accession	Q9ES67, NP_055599.1
Reactivity	Human
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36298
Calculated MW	167704
Antigen Region	605-632

Additional Information

Gene ID	9826
Other Names	Rho guanine nucleotide exchange factor 11, PDZ-RhoGEF, ARHGEF11, KIAA0380
Target/Specificity	This ARHGEF11 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 605-632 amino acids from the Central region of human ARHGEF11.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ARHGEF11 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ARHGEF11
Synonyms	KIAA0380

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. Involved in neurotrophin-induced neurite outgrowth.
Cellular Location	Cytoplasm. Membrane. Note=Translocated to the membrane upon stimulation
Tissue Location	Ubiquitously expressed.

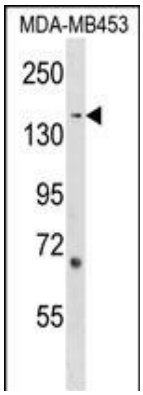
Background

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.

References

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) :

Images



ARHGEF11 Antibody (Center) (Cat. #AP16930c) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the ARHGEF11 antibody detected the ARHGEF11 protein (arrow).