

ARHGEF11 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP16930c

Specification

ARHGEF11 Antibody (Center) - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Isotype Calculated MW Antigen Region WB,E <u>O15085</u> <u>O9ES67</u>, <u>NP_055599.1</u> Human Rat Rabbit Polyclonal Rabbit IgG 167704 605-632

ARHGEF11 Antibody (Center) - 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

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.

ARHGEF11 Antibody (Center) - 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.

ARHGEF11 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

ARHGEF11 Antibody (Center) - 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).

ARHGEF11 Antibody (Center) - 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.

ARHGEF11 Antibody (Center) - 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) :