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ARHGEF11 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP16930c

Specification

ARHGEF11 Antibody (Center) Blocking Peptide - Product Information

Primary Accession O15085

ARHGEF11 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 9826

Other Names
Rho guanine nucleotide exchange factor 11, PDZ-RhoGEF, ARHGEF11, KIAA0380

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ARHGEF11 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- Blocking Peptides

ARHGEF11 Antibody (Center) Blocking Peptide - Images

ARHGEF11 Antibody (Center) Blocking Peptide - Background

Rho GTPases play a fundamental role in numerous cellularprocesses that are initiated by extracellular stimuli that workthrough G protein coupled receptors. The encoded protein may form acomplex with G proteins and stimulate Rho-dependent signals. Asimilar protein in rat interacts with glutamate transporter EAAT4and modulates its glutamate transport activity. Expression of therat protein induces the reorganization of the actin cytoskeletonand its overexpression induces the formation of membrane rufflingand filopodia. Two alternative transcripts encoding differentisoforms have been described.

ARHGEF11 Antibody (Center) Blocking Peptide - 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) :