

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 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) 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) :