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ARHGEF1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP14869a

Specification

ARHGEF1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O92888

ARHGEF1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 9138

Other Names
Rho guanine nucleotide exchange factor 1, 115 kDa guanine nucleotide exchange factor, p115-RhoGEF, p115RhoGEF, Sub15, ARHGEF1

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.

ARHGEF1 Antibody (N-term) Blocking Peptide - Protein Information

Name ARHGEF1

Function
Seems to play a role in the regulation of RhoA GTPase by guanine nucleotide-binding alpha-12 (GNA12) and alpha-13 (GNA13) subunits (PubMed:9641915, PubMed:<a href="http://www.uniprot.org/citations/9641916"

ARHGEF1 Antibody (N-term) 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 formcomplex with G proteins and stimulate Rho-dependent signals.Multiple alternatively spliced transcript variants have been foundfor this gene, but the full-length nature of some variants has notbeen defined.

ARHGEF1 Antibody (N-term) Blocking Peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Loirand, G., et al. Med Sci (Paris) 26 (6-7), 561-563 (2010) :Takefuji, M., et al. J. Hum. Genet. 55(1):42-49(2010)Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)Slattum, G., et al. J. Cell Biol. 186(5):693-702(2009)

target="_blank">9641916). Acts as GTPase-activating protein (GAP) for GNA12 and GNA13, and as guanine nucleotide exchange factor (GEF) for RhoA GTPase (PubMed:9641915, PubMed:9641916, PubMed:8810315, PubMed:30521495). Activated G alpha 13/GNA13 stimulates the RhoGEF activity through interaction with the RGS-like domain (PubMed:9641916). This GEF activity is inhibited by binding to activated GNA12 (PubMed:9641916). Mediates angiotensin-2-induced RhoA activation (PubMed:20098430).

Cellular Location
Cytoplasm. Membrane. Note=Translocated to the membrane by activated GNA13 or LPA stimulation

Tissue Location
Ubiquitously expressed.

ARHGEF1 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides