

ARHGEF1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP14869a**Specification**

ARHGEF1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q92888](#)**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:9641916). Acts as a GTPase-activating protein (GAP) for GNA12 and GNA13, and as guanine nucleotide exchange factor (GEF) for RhoA GTPase (PubMed:30521495, PubMed:8810315, PubMed:9641915, PubMed:9641916). 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). In lymphoid follicles, may trigger activation of GNA13 as part of S1PR2-dependent signaling pathway that leads

to inhibition of germinal center (GC) B cell growth and migration outside the GC niche.

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](#)

ARHGEF1 Antibody (N-term) Blocking Peptide - Images**ARHGEF1 Antibody (N-term) 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 complex with G proteins and stimulate Rho-dependent signals. Multiple alternatively spliced transcript variants have been found for this gene, but the full-length nature of some variants has not been 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)