

ARHGEF3 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP5820c**Specification**

ARHGEF3 Antibody (Center) Blocking peptide - Product Information

Primary Accession [O9NR81](#)
Other Accession [NP_062455.1](#)

ARHGEF3 Antibody (Center) Blocking peptide - Additional Information

Gene ID 50650

Other Names

Rho guanine nucleotide exchange factor 3, Exchange factor found in platelets and leukemic and neuronal tissues, XPLN, ARHGEF3

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.

ARHGEF3 Antibody (Center) Blocking peptide - Protein Information

Name ARHGEF3

Function

Acts as a guanine nucleotide exchange factor (GEF) for RhoA and RhoB GTPases.

Cellular Location

Cytoplasm.

Tissue Location

Widely expressed. Highest levels are found in adult brain and skeletal muscle. Lower levels are found in heart and kidney

ARHGEF3 Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

ARHGEF3 Antibody (Center) Blocking peptide - Images**ARHGEF3 Antibody (Center) Blocking peptide - Background**

Rho-like GTPases are involved in a variety of cellular processes, and they are activated by binding GTP and inactivated by conversion of GTP to GDP by their intrinsic GTPase activity. Guanine nucleotide exchange factors (GEFs) accelerate the GTPase activity of Rho GTPases by catalyzing their release of bound GDP. This gene encodes a guanine nucleotide exchange factor, which specifically activates two members of the Rho GTPase family: RHOA and RHOB, both of which have a role in bone cell biology. It has been identified that genetic variation in this gene plays a role in the determination of bone mineral density (BMD), indicating the implication of this gene in postmenopausal osteoporosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

ARHGEF3 Antibody (Center) Blocking peptide - References

Arthur, W.T., et al. J. Biol. Chem. 277(45):42964-42972(2002) Harrington, A.W., et al. J. Neurosci. 22(1):156-166(2002) Simpson, J.C., et al. EMBO Rep. 1(3):287-292(2000) Thiesen, S., et al. Biochem. Biophys. Res. Commun. 273(1):364-369(2000)