

**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)