

**ARHGAP18 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8516c****Specification**

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**ARHGAP18 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q8N392](#)**ARHGAP18 Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 93663

**Other Names**

Rho GTPase-activating protein 18, MacGAP, Rho-type GTPase-activating protein 18, ARHGAP18 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=21035" target="\_blank">HGNC:21035</a>)

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody <a href="/products/AP8516c">AP8516c</a> was selected from the Center region of human ARHGAP18. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**ARHGAP18 Antibody (Center) Blocking Peptide - Protein Information**Name ARHGAP18 ([HGNC:21035](#))**Function**

Rho GTPase activating protein that suppresses F-actin polymerization by inhibiting Rho. Rho GTPase activating proteins act by converting Rho-type GTPases to an inactive GDP-bound state (PubMed:<a href="http://www.uniprot.org/citations/21865595" target="\_blank">21865595</a>). Plays a key role in tissue tension and 3D tissue shape by regulating cortical actomyosin network formation. Acts downstream of YAP1 and inhibits actin polymerization, which in turn reduces nuclear localization of YAP1 (PubMed:<a href="http://www.uniprot.org/citations/25778702" target="\_blank">25778702</a>). Regulates cell shape, spreading, and migration (PubMed:<a href="http://www.uniprot.org/citations/21865595" target="\_blank">21865595</a>).

**Cellular Location**

Cytoplasm.

### **ARHGAP18 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **ARHGAP18 Antibody (Center) Blocking Peptide - Images**

### **ARHGAP18 Antibody (Center) Blocking Peptide - Background**

GTPase activator for the Rho-type GTPases by converting them to an inactive GDP-bound state.

### **ARHGAP18 Antibody (Center) Blocking Peptide - References**

Potkin,S.G., et.al., Mol. Psychiatry 14 (4), 416-428 (2009)Lehner,B.et.al., Genome Res. 14 (7), 1315-1323 (2004)