

**ARPC5 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12337a****Specification**

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**ARPC5 Antibody (N-term) Blocking peptide - Product Information**Primary Accession [O15511](#)**ARPC5 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 10092**Other Names**

Actin-related protein 2/3 complex subunit 5, Arp2/3 complex 16 kDa subunit, p16-ARC, ARPC5, ARC16

**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.

**ARPC5 Antibody (N-term) Blocking peptide - Protein Information****Name** ARPC5**Synonyms** ARC16**Function**

Component of the Arp2/3 complex, a multiprotein complex that mediates actin polymerization upon stimulation by nucleation-promoting factor (NPF) (PubMed:<a href="http://www.uniprot.org/citations/9230079" target="\_blank">9230079</a>). The Arp2/3 complex mediates the formation of branched actin networks in the cytoplasm, providing the force for cell motility (PubMed:<a href="http://www.uniprot.org/citations/9230079" target="\_blank">9230079</a>). In addition to its role in the cytoplasmic cytoskeleton, the Arp2/3 complex also promotes actin polymerization in the nucleus, thereby regulating gene transcription and repair of damaged DNA (PubMed:<a href="http://www.uniprot.org/citations/29925947" target="\_blank">29925947</a>). The Arp2/3 complex promotes homologous recombination (HR) repair in response to DNA damage by promoting nuclear actin polymerization, leading to drive motility of double-strand breaks (DSBs) (PubMed:<a href="http://www.uniprot.org/citations/29925947" target="\_blank">29925947</a>).

**Cellular Location**

Cytoplasm, cytoskeleton. Cell projection. Nucleus

### **ARPC5 Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **ARPC5 Antibody (N-term) Blocking peptide - Images**

### **ARPC5 Antibody (N-term) Blocking peptide - Background**

This gene encodes one of seven subunits of the humanArp2/3 protein complex. The Arp2/3 protein complex has been implicated in the control of actin polymerization in cells and has been conserved through evolution. The exact role of the protein encoded by this gene, the p16 subunit, has yet to be determined.

### **ARPC5 Antibody (N-term) Blocking peptide - References**

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278(38):36410-36417(2003)Gevaert, K., et al. Nat. Biotechnol. 21(5):566-569(2003)