

ARPC3 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP6601a**Specification**

ARPC3 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O15145](#)**ARPC3 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 10094**Other Names**

Actin-related protein 2/3 complex subunit 3, Arp2/3 complex 21 kDa subunit, p21-ARC, ARPC3, ARC21

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6601a](/products/AP6601a) was selected from the N-term region of human ARPC3. 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.

ARPC3 Antibody (N-term) Blocking Peptide - Protein Information**Name** ARPC3**Synonyms** ARC21**Function**

Component of the Arp2/3 complex, a multiprotein complex that mediates actin polymerization upon stimulation by nucleation-promoting factor (NPF) (PubMed: [9230079](http://www.uniprot.org/citations/9230079)). The Arp2/3 complex mediates the formation of branched actin networks in the cytoplasm, providing the force for cell motility (PubMed: [9230079](http://www.uniprot.org/citations/9230079)). 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: [29925947](http://www.uniprot.org/citations/29925947)). 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:29925947).

Cellular Location

Cytoplasm, cytoskeleton. Cell projection Nucleus

ARPC3 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ARPC3 Antibody (N-term) Blocking Peptide - Images**ARPC3 Antibody (N-term) Blocking Peptide - Background**

ARPC3 is one of seven subunits of the human Arp2/3 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, the p21 subunit, has yet to be determined.

ARPC3 Antibody (N-term) Blocking Peptide - References

Dubois,T., Nat. Cell Biol. 7 (4), 353-364 (2005)