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ARPC5 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP12337a

Specification

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:9230079). The Arp2/3 complex mediates the formation of branched actin networks in the cytoplasm, providing the force for cell motility (PubMed: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). 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

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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 beenimplicated in the control of actin polymerization in cells and hasbeen conserved through evolution. The exact role of the proteinencoded by this gene, the p16 subunit, has yet to be determined.

ARPC5 Antibody (N-term) Blocking peptide - References

Lamesch, P., et al. Genomics 89(3):307-315(2007)Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :Singh, S., et al. J. Biol. Chem. 278(38):36410-36417(2003)Singh, S., et al. J. Biol. Chem. 278(38):36410-36417(2003)Gevaert, K., et al. Nat. Biotechnol. 21(5):566-569(2003)