

**ARPC2 Blocking Peptide (C-term)**

Synthetic peptide

Catalog # BP20763c

**Specification**

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**ARPC2 Blocking Peptide (C-term) - Product Information**

Primary Accession

[O15144](#)

Other Accession

[P85970](#), [Q9CVB6](#), [Q3MHR7](#)**ARPC2 Blocking Peptide (C-term) - Additional Information**

Gene ID 10109

**Other Names**

Actin-related protein 2/3 complex subunit 2, Arp2/3 complex 34 kDa subunit, p34-ARC, ARPC2, ARC34

**Target/Specificity**

The synthetic peptide sequence is selected from aa 278-291 of HUMAN ARPC2

**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.

**ARPC2 Blocking Peptide (C-term) - Protein Information**

Name ARPC2

Synonyms ARC34

**Function**

Actin-binding 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>). Seems to contact the mother actin filament (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. Synapse, synaptosome  
{ECO:0000250|UniProtKB:Q9CVB6}. Nucleus

**ARPC2 Blocking Peptide (C-term) - Protocols**

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

- [Blocking Peptides](#)

**ARPC2 Blocking Peptide (C-term) - Images****ARPC2 Blocking Peptide (C-term) - Background**

Functions as actin-binding component of the Arp2/3 complex which is involved in regulation of actin polymerization and together with an activating nucleation-promoting factor (NPF) mediates the formation of branched actin networks. Seems to contact the mother actin filament.

**ARPC2 Blocking Peptide (C-term) - References**

Welch M.D.,et al.J. Cell Biol. 138:375-384(1997).  
Couch F.J.,et al.Genomics 36:86-99(1996).  
Kalnina N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.  
Gevaert K.,et al.Nat. Biotechnol. 21:566-569(2003).  
Zhang C.,et al.Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases.