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ARPC2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP18993b

Specification

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

Primary Accession O15144

ARPC2 Antibody (C-term) Blocking Peptide - 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

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 Antibody (C-term) Blocking Peptide - 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:9230079). The Arp2/3 complex mediates the formation of branched actin networks in the cytoplasm, providing the force for cell motility (PubMed:9230079). Seems to contact the mother actin filament (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. Synapse, synaptosome {ECO:0000250|UniProtKB:Q9CVB6}. Nucleus

ARPC2 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

ARPC2 Antibody (C-term) Blocking Peptide - Images

ARPC2 Antibody (C-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 p34 subunit, has yet to be determined.Two alternatively spliced variants have been characterized to date.Additional alternatively spliced variants have been described buttheir full length nature has not been determined. [provided byRefSeq].

ARPC2 Antibody (C-term) Blocking Peptide - References

Monfregola, J., et al. J. Biol. Chem. 285(22):16951-16957(2010)Festen, E.A., et al. Am. J. Gastroenterol. 105(2):395-402(2010)Franke, A., et al. Nat. Genet. 40(11):1319-1323(2008)Xiao, F., et al. Brain Res. 1233, 168-175 (2008) :Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :