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ARPC2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18993b

Specification

ARPC2 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	O15144
Other Accession	P85970, Q9CVB6, Q3MHR7, NP_690601.1, Q0IH88, Q6IRB1
Reactivity	**Human**
Predicted	**Xenopus, Bovine, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**34333**
Antigen Region	**263-291**

ARPC2 Antibody (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
This ARPC2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 263-291 amino acids from the C-terminal region of human ARPC2.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ARPC2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ARPC2 Antibody (C-term) - Protein Information

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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).

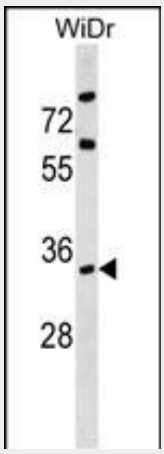
Cellular Location
Cytoplasm, cytoskeleton. Cell projection. Synapse, synaptosome {ECO:0000250|UniProtKB:Q9CVB6}. Nucleus

ARPC2 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ARPC2 Antibody (C-term) - Images



ARPC2 Antibody (C-term) (Cat. #AP18993b) western blot analysis in WiDr cell line lysates (35ug/lane).This demonstrates the ARPC2 antibody detected the ARPC2 protein (arrow).

ARPC2 Antibody (C-term) - Background

This gene encodes 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 encoded 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 but their full length nature has not been determined. [provided by RefSeq].

ARPC2 Antibody (C-term) - References

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Xiao, F., et al. Brain Res. 1233, 168-175 (2008) :
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