

**ARPC2 / p34-Arc Antibody (C-Terminus)**  
Goat Polyclonal Antibody  
Catalog # ALS12440**Specification**

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**ARPC2 / p34-Arc Antibody (C-Terminus) - Product Information**

Application	WB, IHC-P, E
Primary Accession	<a href="#">O15144</a>
Reactivity	Human, Mouse, Rat, Rabbit, Hamster, Monkey, Bovine, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	34kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A

**ARPC2 / p34-Arc Antibody (C-Terminus) - 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**

Human ARPC2. The reported variants NP\_005722.1 and NP\_690601.1 represent identical protein.

**Reconstitution & Storage**

Store at -20°C. Minimize freezing and thawing.

**Precautions**

ARPC2 / p34-Arc Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**ARPC2 / p34-Arc Antibody (C-Terminus) - 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>).

[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](http://www.uniprot.org/citations/29925947)).

#### Cellular Location

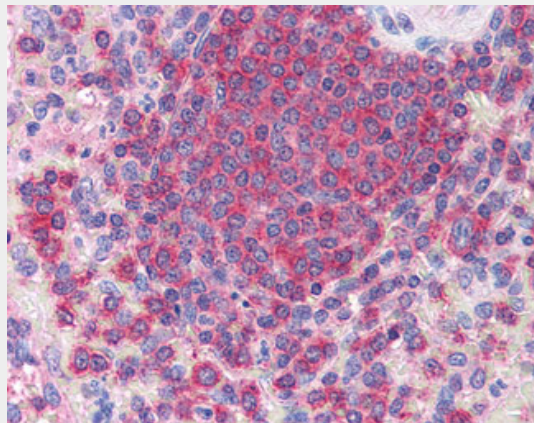
Cytoplasm, cytoskeleton. Cell projection. Synapse, synaptosome {ECO:0000250|UniProtKB:Q9CVB6}. Nucleus

#### ARPC2 / p34-Arc Antibody (C-Terminus) - Protocols

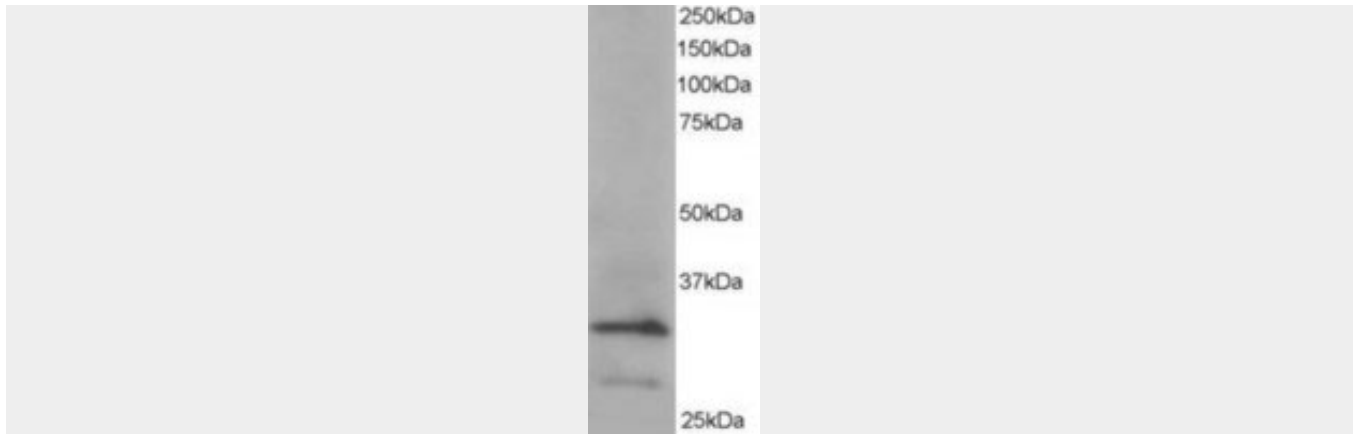
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### ARPC2 / p34-Arc Antibody (C-Terminus) - Images



Anti-ARPC2 antibody IHC of human spleen.



Staining (0.2 ug/ml) of HeLa lysate (RIPA buffer, 35 ug total protein per lane).

#### **ARPC2 / p34-Arc Antibody (C-Terminus) - 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 / p34-Arc Antibody (C-Terminus) - References**

- Welch M.D., et al. *J. Cell Biol.* 138:375-384(1997).
- Couch F.J., et al. *Genomics* 36:86-99(1996).
- Kalnine 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.