

ARPC2 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20763c

Specification

ARPC2 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	O15144
Other Accession	P85970 , Q9CVB6 , Q3MHR7 , Q0IH88 , Q6IRB1
Reactivity	Human
Predicted	Xenopus, Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	34333

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 a rabbit immunized with a KLH conjugated synthetic peptide between 278-311 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

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

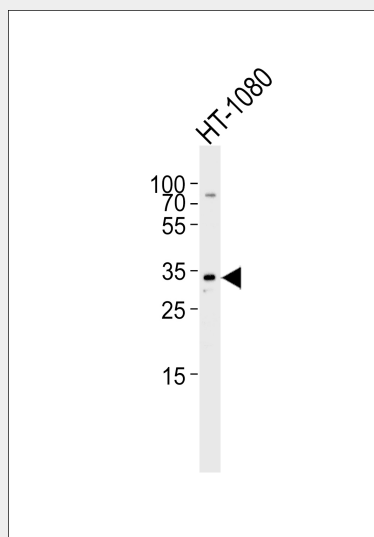
Cytoplasm, cytoskeleton. Cell projection. Synapse, synaptosome {ECO:0000250|UniProtKB:Q9CVB6}. Nucleus

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 Cytometry](#)
- [Cell Culture](#)

ARPC2 Antibody (C-term) - Images



Western blot analysis of lysate from HT-1080 cell line, using ARPC2 Antibody (C-term)(Cat. #AP20763c). AP20763c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

ARPC2 Antibody (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 Antibody (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).
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.