

ARPC2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP20763c

Specification

ARPC2 Antibody (C-term) - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Isotype Calculated MW WB,E <u>O15144</u> <u>P85970, O9CVB6, O3MHR7, O0IH88, O6IRB1</u> Human Xenopus, Bovine, Mouse, Rat Rabbit Polyclonal Rabbit IgG 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:<u>9230079</u>). The Arp2/3 complex mediates the formation of branched actin networks in the cytoplasm, providing the force for cell motility (PubMed:<u>9230079</u>). Seems to contact the mother actin filament (PubMed:<u>9230079</u>). 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:<u>29925947</u>). 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:<u>29925947</u>).

Cellular Location

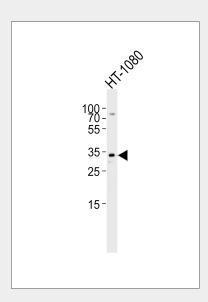
Cytoplasm, cytoskeleton. Cell projection. Synapse, synaptosome {ECO:0000250|UniProtKB:Q9CVB6}. Nucleus

ARPC2 Antibody (C-term) - Protocols

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

- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- <u>Dot Blot</u>
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

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.