

**ARPC1A Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6519c****Specification**

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**ARPC1A Antibody (Center) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">Q92747</a>
Other Accession	<a href="#">Q99PD4</a> , <a href="#">Q9R0Q6</a> , <a href="#">Q1JP79</a> , <a href="#">Q8AVT9</a> , <a href="#">A0A1L8EXB5</a>
Reactivity	Human
Predicted	Xenopus, Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	41569
Antigen Region	157-184

**ARPC1A Antibody (Center) - Additional Information****Gene ID** 10552**Other Names**

Actin-related protein 2/3 complex subunit 1A, SOP2-like protein, ARPC1A, SOP2L

**Target/Specificity**

This ARPC1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 157-184 amino acids from the Central region of human ARPC1A.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**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**

ARPC1A Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**ARPC1A Antibody (Center) - Protein Information**

**Name** ARPC1A

**Synonyms** SOP2L

**Function** Probably functions as a 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.

**Cellular Location**

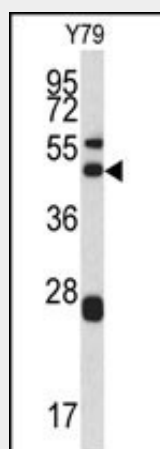
Cytoplasm, cytoskeleton. Nucleus {ECO:0000250|UniProtKB:Q8AVT9}

**ARPC1A Antibody (Center) - Protocols**

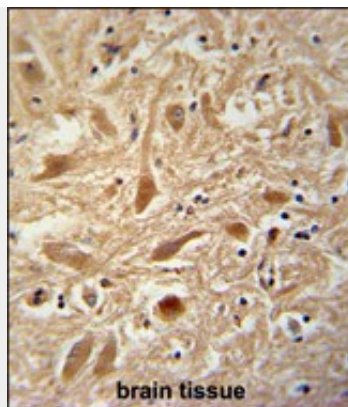
Provided below are standard protocols that you may find useful for product applications.

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

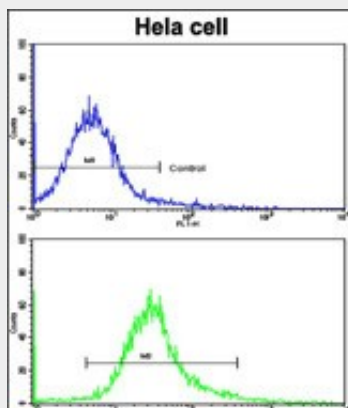
**ARPC1A Antibody (Center) - Images**



Western blot analysis of ARPC1A antibody (Center) (Cat.# AP6519c) in Y79 cell line lysates (35ug/lane). ARPC1A (arrow) was detected using the purified Pab.



ARPC1A Antibody (Center) (Cat. #AP6519c) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ARPC1A Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow cytometric analysis of heLa cells using ARPC1A Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### ARPC1A Antibody (Center) - Background

ARPC1A is one of seven subunits of the human Arp2/3 protein complex. This subunit is a member of the SOP2 family of proteins and is most similar to the protein ARPC1B. The similarity between these two proteins suggests that they both may function as p41 subunit of the human Arp2/3 complex that has been implicated in the control of actin polymerization in cells. It is possible that the p41 subunit is involved in assembling and maintaining the structure of the Arp2/3 complex. Multiple versions of the p41 subunit may adapt the functions of the complex to different cell types or developmental stages.

### ARPC1A Antibody (Center) - References

Laurila,E., Genes Chromosomes Cancer 48 (4), 330-339 (2009)  
Machesky,L.M., Biochem. J. 328 (PT 1), 105-112 (1997)