

ARG42096 anti-ARPC1A antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes ARPC1A
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Cow, Pig
Tested Application	IHC-P, WB
Specificity	This antibody is expected to recognize both reported isoforms (NP_006400.2; NP_001177925.1). No cross-reactivity expected with ARPC1B.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	ARPC1A
Species	Human
Immunogen	Synthetic peptide around the C-terminal region of Human ARPC1A. (C-DFKTLESSIQGLR) (NP_006400.2; NP_001177925.1)
Conjugation	Un-conjugated
Alternate Names	SOP2L; Actin-related protein 2/3 complex subunit 1A; SOP2Hs; HEL-68; Arc40; SOP2-like protein

Application Instructions

Application table	Application	Dilution
	IHC-P	5 µg/ml
	WB	0.1 - 0.3 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 42 kDa (Human)	

Properties

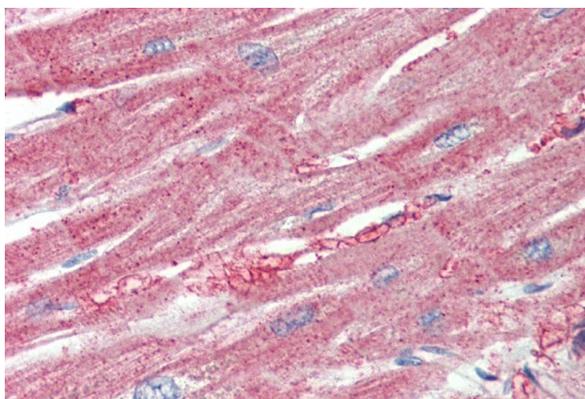
Form	Liquid
Purification	Affinity purified
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA

Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

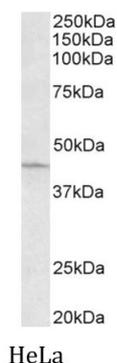
Gene Symbol	ARPC1A
Gene Full Name	actin related protein 2/3 complex, subunit 1A, 41kDa
Background	This gene encodes one of seven subunits of the human Arp2/3 protein complex. This subunit is a member of the SOP2 family of proteins and is most similar to the protein encoded by gene ARPC1B. The similarity 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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2010]
Function	Probably functions as 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. [UniProt]
Calculated Mw	42 kDa (Human)
Cellular Localization	Cytoplasm, cytoskeleton. [UniProt]

Images



ARG42096 anti-ARPC1A antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human heart tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG42096 anti-ARPC1A antibody at 5 µg/ml dilution.



ARG42096 anti-ARPC1A antibody WB image

Western blot: 35 µg of HeLa cell lysate (in RIPA buffer) stained with ARG42096 anti-ARPC1A antibody at 0.3 µg/ml dilution and incubated at RT for 1 hour.

ARG42096 anti-ARPC1A antibody WB image

Western blot: 35 µg of fetal mouse brain and adult rat brain lysates (in RIPA buffer) stained with ARG42096 anti-ARPC1A antibody at 0.1 µg/ml dilution and incubated at RT for 1 hour.

