ARG42074
anti-ARPC1A antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ARPC1A
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Bov, Xenopus
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ARPC1A
Species	Human
Immunogen	KLH-conjugated synthetic peptide between aa. 286-315 of Human ARPC1A.
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
FACS	1:10 - 1:50
ICC/IF	1:10 - 1:50
IHC-P	1:10 - 1:50
WB	1:1000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	HeLa
Observed Size	~ 36 kDa

Properties

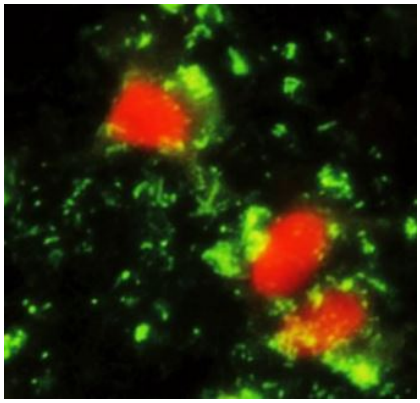
Form	Liquid
Purification	Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot 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

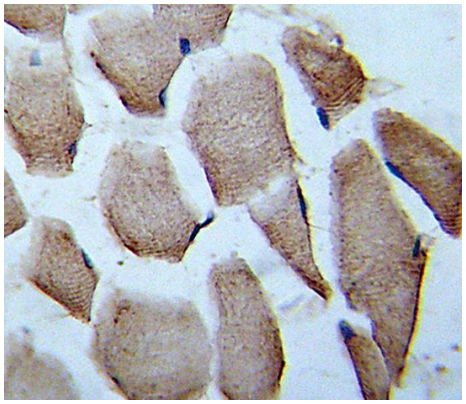
Gene Symbol	ARPC1A
Gene Full Name	actin related protein 2/3 complex, subunit 1A, 41kDa
Background	This gene encodes one of seven subunits of the human Arp2/3 protein complex. This subunit is a member of the SOP2 family of proteins and is most similar to the protein encoded by gene ARPC1B. The similarity 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
Cellular Localization	Cytoplasm, cytoskeleton. [UniProt]

Images



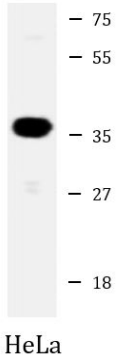
ARG42074 anti-ARPC1A antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG42074 anti-ARPC1A antibody (green) 25 µg/ml dilution. Propidium iodide (red) for nuclear staining.



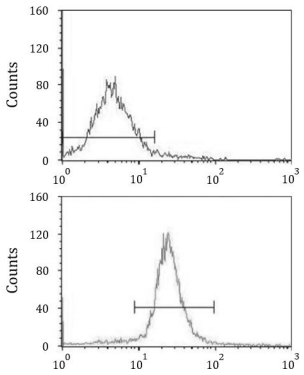
ARG42074 anti-ARPC1A antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human skeletal muscle tissue stained with ARG42074 anti-ARPC1A antibody.



ARG42074 anti-ARPC1A antibody WB image

Western blot: 20 µg of HeLa whole cell lysate stained with ARG42074 anti-ARPC1A antibody at 1:1000 dilution.



ARG42074 anti-ARPC1A antibody FACS image

Flow Cytometry: WiDr cells stained with ARG42074 anti-ARPC1A antibody (bottom histogram) or without primary antibody as control (top histogram), followed by incubation with FITC labelled secondary antibody.