

ARPC1B / p41-ARC / ARP2 Antibody (N-Terminus)
Goat Polyclonal Antibody
Catalog # ALS12441**Specification**

ARPC1B / p41-ARC / ARP2 Antibody (N-Terminus) - Product Information

Application	WB, IHC-P, E
Primary Accession	O15143
Reactivity	Human, Mouse, Rat, Rabbit, Hamster, Monkey, Pig, Horse, Bovine, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	41kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A

ARPC1B / p41-ARC / ARP2 Antibody (N-Terminus) - Additional Information**Gene ID** 10095**Other Names**

Actin-related protein 2/3 complex subunit 1B, Arp2/3 complex 41 kDa subunit, p41-ARC, ARPC1B, ARC41

Target/Specificity

Human ARPC1B / p41-ARC.

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

ARPC1B / p41-ARC / ARP2 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

ARPC1B / p41-ARC / ARP2 Antibody (N-Terminus) - Protein Information**Name** ARPC1B ([HGNC:704](#))**Synonyms** ARC41**Function**

Component of the Arp2/3 complex, a multiprotein complex that mediates actin polymerization upon stimulation by nucleation-promoting factor (NPF) (PubMed:11741539, PubMed:9230079). The Arp2/3 complex mediates the formation of branched actin networks in the cytoplasm, providing the force for cell motility (PubMed:11741539).

target="_blank">11741539, 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

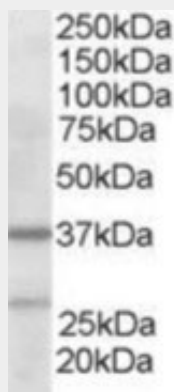
Cytoplasm, cytoskeleton. Nucleus

ARPC1B / p41-ARC / ARP2 Antibody (N-Terminus) - Protocols

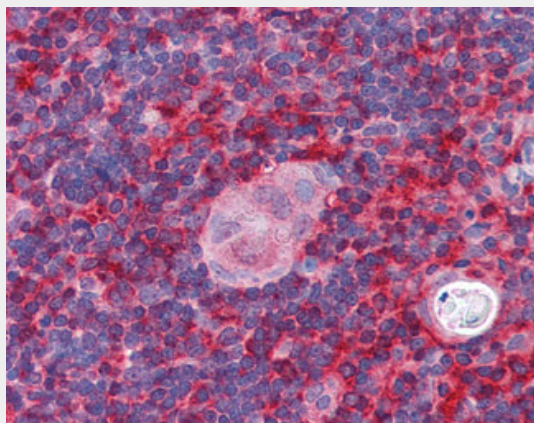
Provided below are standard protocols that you may find useful for product applications.

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

ARPC1B / p41-ARC / ARP2 Antibody (N-Terminus) - Images



Antibody staining (2 ug/ml) of Human Liver lysate (RIPA buffer, 35 ug total protein per lane).



Anti-ARPC1B / p41-ARC antibody IHC of human thymus.

ARPC1B / p41-ARC / ARP2 Antibody (N-Terminus) - Background

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.

ARPC1B / p41-ARC / ARP2 Antibody (N-Terminus) - References

Welch M.D.,et al.J. Cell Biol. 138:375-384(1997).
Hillier L.W.,et al.Nature 424:157-164(2003).
Gevaert K.,et al.Nat. Biotechnol. 21:566-569(2003).
Gournier H.,et al.Mol. Cell 8:1041-1052(2001).
Olsen J.V.,et al.Cell 127:635-648(2006).