

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
Primary Accession	O15143
Reactivity	Human, Mouse, Rat, Rabbit, Hamster, Monkey, Pig, Horse, Bovine, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	41kDa KDa

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](#))

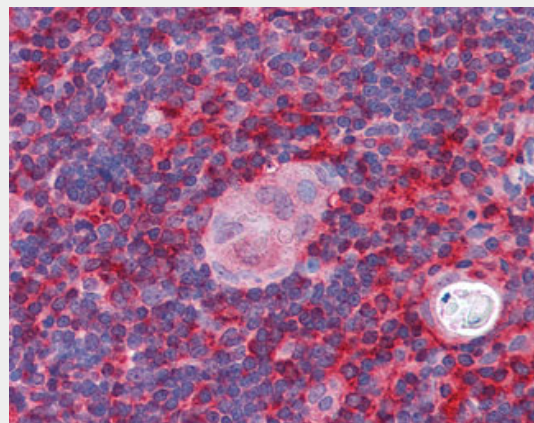
Synonyms ARC41

Function

Component of the Arp2/3 complex, a



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

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, 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).

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).

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](#)