

ARPC1B Antibody - C-terminal region

Rabbit Polyclonal Antibody

Catalog # AI15266

Product Information

Application	WB
Primary Accession	O15143
Other Accession	NM_005720 , NP_005711
Reactivity	Human, Mouse, Rat, Dog, Guinea Pig, Bovine
Predicted	Human, Mouse, Rat, Pig, Dog, Guinea Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40950

Additional Information

Gene ID	10095
Alias Symbol Other Names	ARC41, p40-ARC, p41-ARC Actin-related protein 2/3 complex subunit 1B, Arp2/3 complex 41 kDa subunit, p41-ARC, ARPC1B, ARC41
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-ARPC1B antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	ARPC1B Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

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 , 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

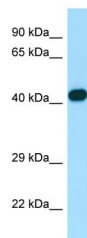
homologous recombination (HR) repair in response to DNA damage by promoting nuclear actin polymerization, leading to drive motility of double-strand breaks (DSBs) (PubMed:[29925947](#)).

Cellular Location Cytoplasm, cytoskeleton. Nucleus

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).

Images



WB Suggested Anti-ARPC1B Antibody Titration: 1.0 µg/ml
Positive Control: Fetal Lung

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.