

# p21-ARC Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP56754

## Product Information

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<b>Application</b>	WB, IHC-P, IHC-F, IF, ICC, E
<b>Primary Accession</b>	<a href="#">O15145</a>
<b>Reactivity</b>	Rat, Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	20547
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human p21-ARC
<b>Epitope Specificity</b>	2-100/178
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Cytoplasm, cytoskeleton. Cell projection.
<b>SIMILARITY</b>	Belongs to the ARPC3 family.
<b>SUBUNIT</b>	Component of the Arp2/3 complex composed of ARP2, ARP3, ARPC1B/p41-ARC, ARPC2/p34-ARC, ARPC3/p21-ARC, ARPC4/p20-ARC and
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	This gene encodes one of seven subunits of the human Arp2/3 protein complex. The Arp2/3 protein complex has been conserved through evolution and is implicated in the control of actin polymerization in cells. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2013]

## Additional Information

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<b>Gene ID</b>	10094
<b>Other Names</b>	Actin-related protein 2/3 complex subunit 3, Arp2/3 complex 21 kDa subunit, p21-ARC, ARPC3, ARC21
<b>Dilution</b>	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## Protein Information

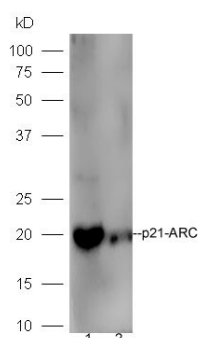
**Name** ARPC3

**Synonyms** ARC21

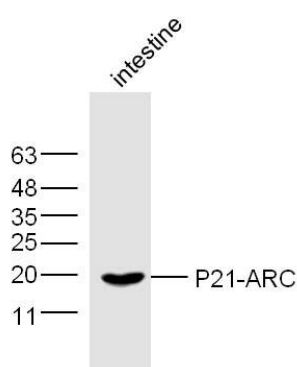
**Function** Component of the Arp2/3 complex, a multiprotein complex that mediates actin polymerization upon stimulation by nucleation-promoting factor (NPF) (PubMed:[9230079](#)). The Arp2/3 complex mediates the formation of branched actin networks in the cytoplasm, providing the force for cell motility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

## Images

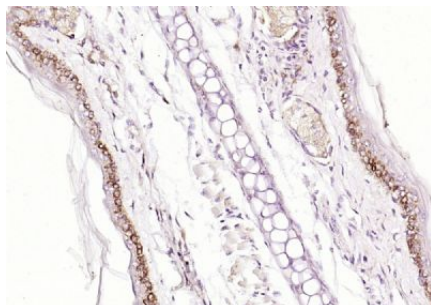
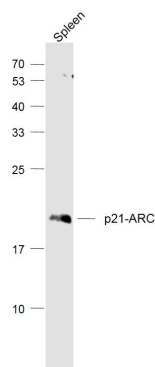


Protein:  
intestinal(mouse) lysate at 30ug;  
Raji(human) lysate at 30ug;  
Primary: rabbit Anti-p21-ARC (AP56754) at 1:300;  
Secondary: HRP conjugated Goat-Anti-rabbit  
IgG(bs-0295G-HRP) at 1: 5000;  
Predicted band size:20 kD  
Observed band size: 20 kD

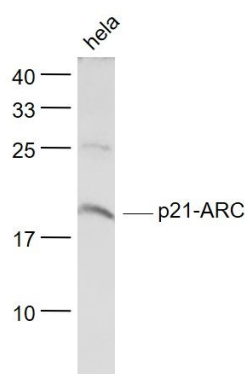


Protein: intestinal(mouse) lysate at 30ug;  
Primary: rabbit Anti-p21-ARC (AP56754) at 1:300;  
Secondary: HRP conjugated Goat-Anti-rabbit  
IgG(bs-0295G-HRP) at 1: 5000;  
Predicted band size:20 kD  
Observed band size: 20 kD

Sample:  
Spleen (Mouse) Lysate at 40 ug  
Primary: Anti-p21-ARC (AP56754) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at  
1/20000 dilution  
Predicted band size: 20 kD  
Observed band size: 20 kD



Paraformaldehyde-fixed, paraffin embedded (mouse skin); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (p21-ARC) Polyclonal Antibody, Unconjugated (AP56754) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Sample:  
 HeLa(Human) Cell Lysate at 30 ug  
 Primary: Anti- p21-ARC (AP56754) at 1/1000 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 20 kD  
 Observed band size: 20 kD

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