

p21-ARC Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56754

Specification

p21-ARC Polyclonal Antibody - Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	O15145
Reactivity	Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	20 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human p21-ARC
Epitope Specificity	2-100/178
Isotype	IgG
Purity	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm, cytoskeleton. Cell projection.
SIMILARITY	Belongs to the ARPC3 family.
SUBUNIT	Component of the Arp2/3 complex composed of ARP2, ARP3, ARPC1B/p41-ARC, ARPC2/p34-ARC, ARPC3/p21-ARC, ARPC4/p20-ARC and
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

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]

p21-ARC Polyclonal Antibody - Additional Information

Gene ID 10094

Other Names

Actin-related protein 2/3 complex subunit 3, Arp2/3 complex 21 kDa subunit, p21-ARC, ARPC3, ARC21

Dilution

WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \><span class

=IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Storage

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.

p21-ARC Polyclonal Antibody - 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

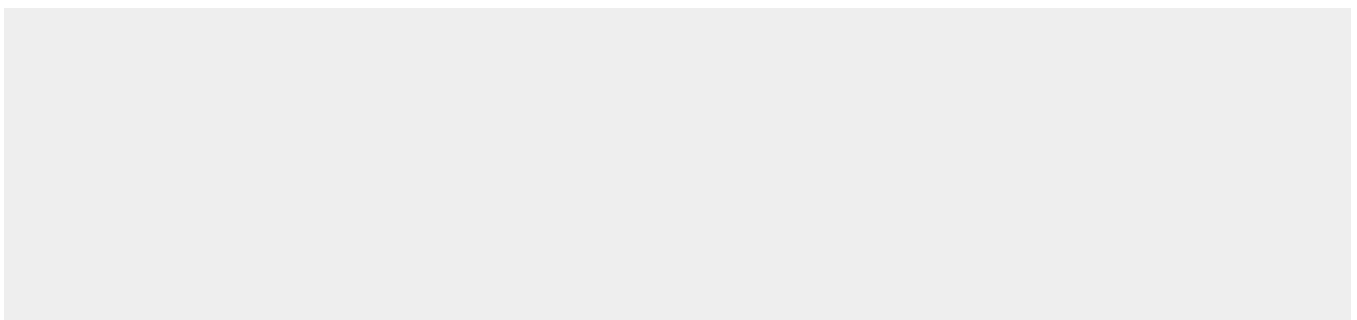
Cytoplasm, cytoskeleton. Cell projection Nucleus

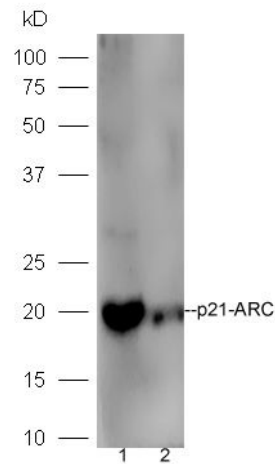
p21-ARC Polyclonal Antibody - Protocols

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](#)

p21-ARC Polyclonal Antibody - Images





Protein:

intestinal(mouse) lysate at 30ug;

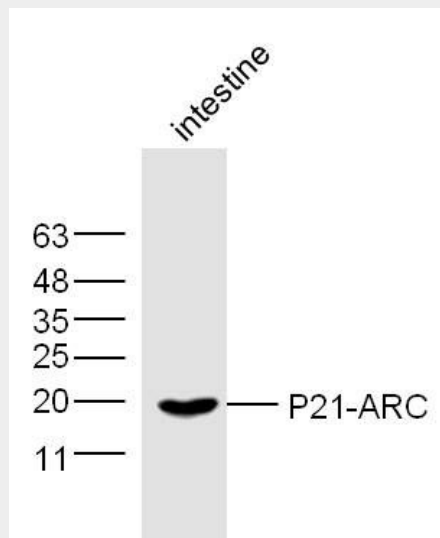
Raji(human) lysate at 30ug;

Primary: rabbit Anti-p21-ARC (bs-17589R) 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



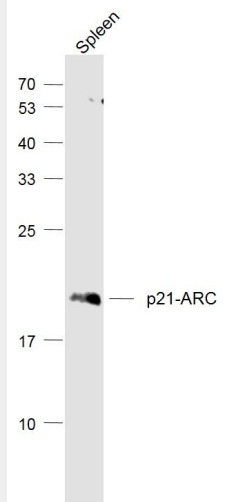
Protein: intestinal(mouse) lysate at 30ug;

Primary: rabbit Anti-p21-ARC (bs-17589R) 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:

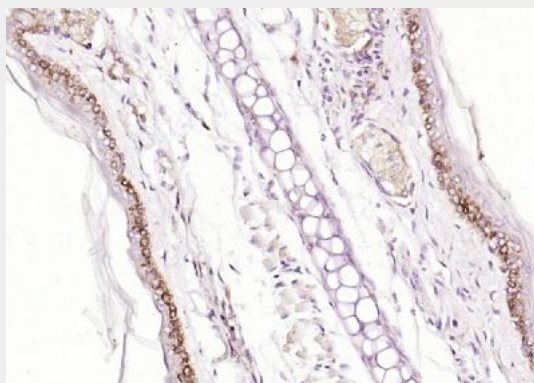
Spleen (Mouse) Lysate at 40 ug

Primary: Anti-p21-ARC (bs-17589R) at 1/1000 dilution

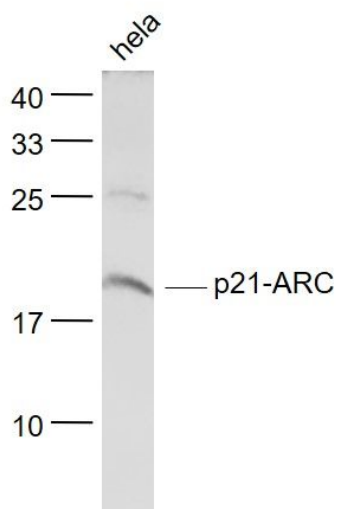
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

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 (bs-17589R) 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 (bs-17589R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 20 kD

Observed band size: 20 kD