For Research Use Only

Arp5/ACTR5 Polyclonal antibody

Catalog Number:21505-1-AP Featured Product 4 Publications

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Basic Information

Catalog Number:
21505-1-AP

Size:
150ul , Concentration: 253 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG15976

GenBank Accession Number:
BC038402

GeneID (NCBI):
79913

UNIPROT ID:
Q9H9F9

Full Name:
ARP5 actin-related protein 5 homolog (yeast)

Calculated MW:
607 aa, 68 kDa

Observed MW:
68 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:6000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:50-1:500
IF/ICC: 1:10-1:100

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IF, IP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HEK-293 cells, human skeletal muscle tissue, mouse cerebellum tissue, mouse heart tissue, mouse ovary tissue, rat heart tissue

IP : HEK-293 cells,

IHC : human kidney tissue, rat colon tissue, mouse colon tissue, mouse kidney tissue, rat kidney tissue, human pancreas cancer tissue

IF/ICC : A549 cells, HepG2 cells

Background Information

Arp5 is a member of nuclear actin-related proteins (ARPs) that function as components of the chromatin- remodeling complex. Recently study reported that Arp5 regulates smooth muscle cell differentiation through interaction with myocardin (Myocd). Arp5 has been identified as negative regulator of Myocd, suppressing Myocd activity in the nucleus through tightly binding with Myocd RPEL motifs. Alternative splicing results in two variants of Arp5: a broadly expressed arp5-common, and a smooth muscle restricted arp5-sm. Expression of Arp5-sm protein is strongly suppressed in well-differentiated smooth muscle cells by partial messenger RNA decay and translational suppression. (24567363)

Notable Publications

Author	Pubmed ID	Journal	Application
Tsuyoshi Morita	35348112	Elife	WB,IP,IF
Yanying Wang	31334575	EMBO J	WB
Tsuyoshi Morita	24567363	J Cell Biol	WB,IF

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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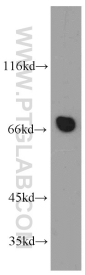
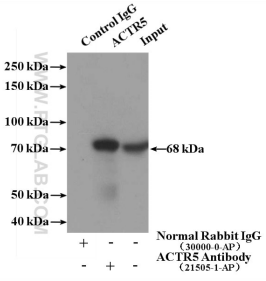
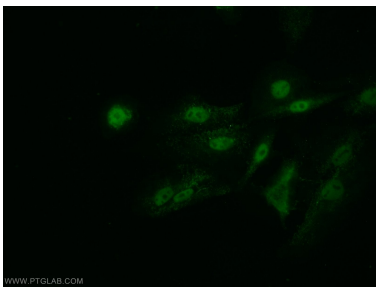
Selected Validation Data



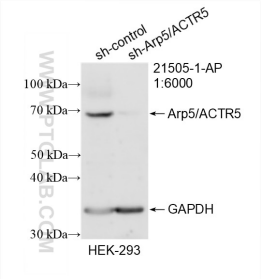
mouse cerebellum tissue were subjected to SDS PAGE followed by western blot with 21505-1-AP (Arp5/ACTR5 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



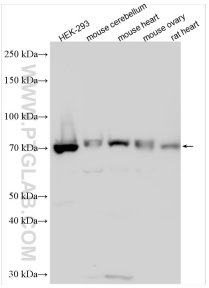
IP result of anti-Arp5/ACTR5 (IP:21505-1-AP, 4ug; Detection:21505-1-AP 1:500) with HEK-293 cells lysate 1120ug.



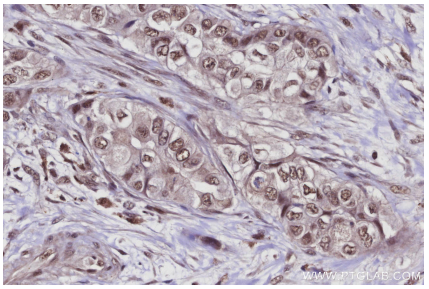
Immunofluorescent analysis of A549 cells using 21505-1-AP (Arp5/ACTR5 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



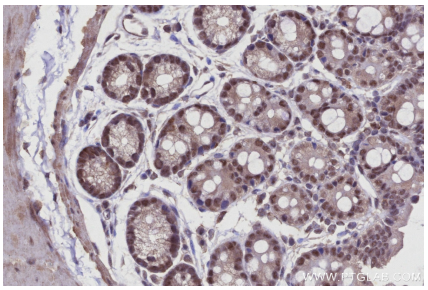
WB result of Arp5/ACTR5 antibody (21505-1-AP; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Arp5/ACTR5 transfected HEK-293 cells.



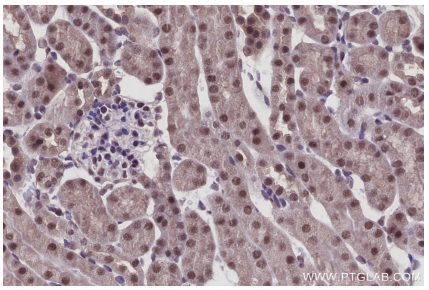
Various lysates were subjected to SDS PAGE followed by western blot with 21505-1-AP (Arp5/ACTR5 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



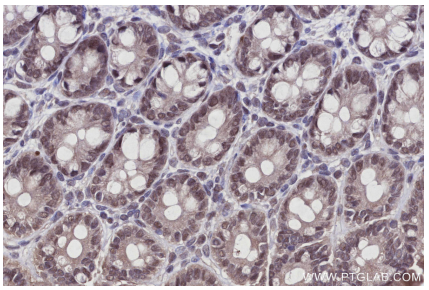
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 21505-1-AP (Arp5/ACTR5 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



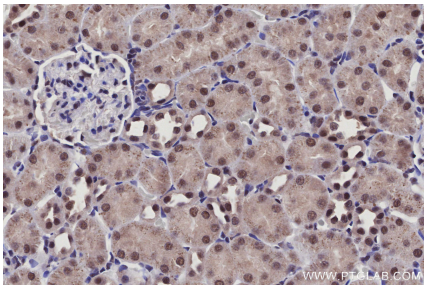
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 21505-1-AP (Arp5/ACTR5 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

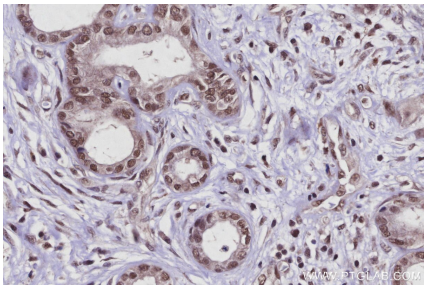


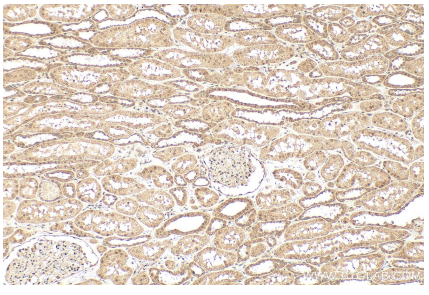
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 21505-1-AP (Arp5/ACTR5 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat colon tissue slide using 21505-1-AP (Arp5/ACTR5 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).







Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 21505-1-AP (Arp5/ACTR5 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 21505-1-AP (Arp5/ACTR5 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 21505-1-AP (Arp5/ACTR5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).