For Research Use Only

ARFGAP1 Polyclonal antibody

Catalog Number:13571-1-AP Featured Product 4 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
13571-1-AP

Size:
150ul , Concentration: 550 ug/ml by Nanodrop and 413 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG4468

GenBank Accession Number:
BC028233

GeneID (NCBI):
55738

UNIPROT ID:
Q8N6T3

Full Name:
ADP-ribosylation factor GTPase activating protein 1

Calculated MW:
414 aa, 46 kDa

Observed MW:
46 kDa, 50 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200
IF/ICC 1:50-1:500

Applications

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

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, pig

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 : PC-3 cells, HeLa cells, human brain tissue

IP : mouse testis tissue,

IHC : human prostate cancer tissue,

IF/ICC : HeLa cells,

Background Information

Protein coats deform flat lipid membranes into buds and capture membrane proteins to form transport vesicles. The assembly-disassembly cycle of the COPI coat on Golgi membranes is coupled to the GTP-GDP cycle of the small G protein ARF1. ARFGAP1 contributes to vesicle budding by increasing the GTPase activity of ARF1, because it promotes hydrolysis of the ARF1-bound GTP and thus, is required for the dissociation of coat proteins from Golgi-derived membranes and vesicles, a prerequisite for vesicle's fusion with target compartment. for ARFGAP1 may has a role in regulating the GTPase activity and neuronal toxicity of LRRK2; reciprocally, LRRK2 phosphorylates ArfGAP1 and is required for ArfGAP1 neuronal toxicity.

Notable Publications

Author	Pubmed ID	Journal	Application
Hsiang-Pu Feng	33715220	FASEB J	WB, IF
Liang Zhang	33721634	Vet Microbiol	WB
Klodjan Stafa	22363216	PLoS Genet	WB,IF

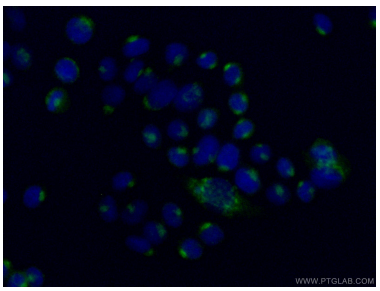
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

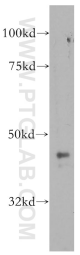
*** 20ul sizes contain 0.1% BSA

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

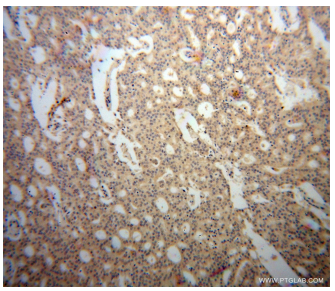
Selected Validation Data



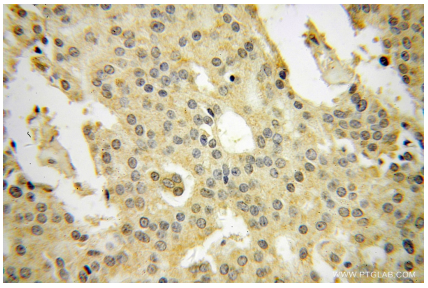
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 13571-1-AP (ARFGAP1 antibody) at dilution of 1:50 and CoraLite488-Conjugated Goat Anti-Rabbit IgG(H+L).



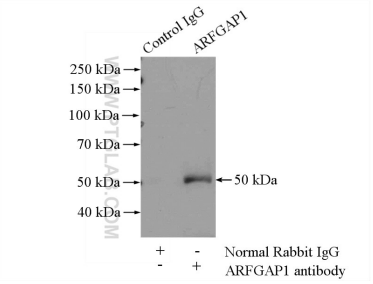
PC-3 cells were subjected to SDS PAGE followed by western blot with 13571-1-AP (ARFGAP1 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer using 13571-1-AP (ARFGAP1 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human prostate cancer using 13571-1-AP (ARFGAP1 antibody) at dilution of 1:100 (under 40x lens).



IP result of anti-ARFGAP1 (IP:13571-1-AP, 4ug; Detection:13571-1-AP 1:500) with mouse testis tissue lysate 4000ug.