For Research Use Only

ARPP-19 Polyclonal antibody

Catalog Number:11678-1-AP Featured Product 6 Publications

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Basic Information

Catalog Number:
11678-1-AP

Size:
600 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2279

GenBank Accession Number:
BC003418

GeneID (NCBI):
10776

UNIPROT ID:
P56211

Full Name:
cyclic AMP phosphoprotein, 19 kD

Calculated MW:
19 kDa

Observed MW:
19 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:250-1:1000
IF 1:10-1:100

Applications

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

Cited Applications:
WB, IP, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human

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 : Jurkat cells, A375 cells, A549 cells, mouse brain tissue, rat skeletal muscle tissue

IP : mouse brain tissue,

IHC : human gliomas tissue,

IF : A375 cells,

Background Information

ARPP-19, a 19-kDa cAMP-regulated phosphoprotein, plays a role in regulating mitosis. Initiation and maintenance of mitosis require the activation of protein kinase cyclin B-Cdc2 and the inhibition of protein phosphatase 2A (PP2A). When phosphorylated by protein kinase Greatwall (Gwl), ARPP-19 associate with and inhibit PP2A, thus promoting mitotic entry. ARPP-19 may be an important link between nerve growth factor (NGF) signaling and post-transcriptional control of neuronal gene expression such as GAP-43.

Notable Publications

Author	Pubmed ID	Journal	Application
Eleonora Mäkelä	31717978	Cancers (Basel)	WB
Xiang Gao	32753897	Onco Targets Ther	WB,IHC
Haiyan Song	25547487	Int J Mol Sci	WB

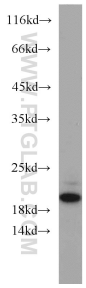
Storage

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

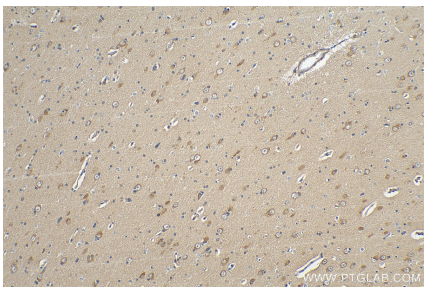
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

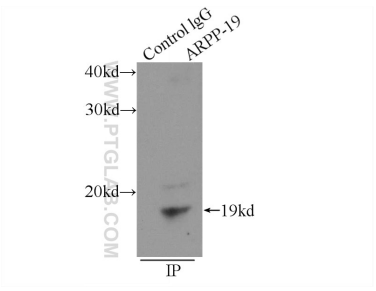
Selected Validation Data



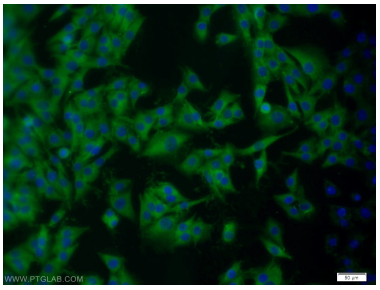
Jurkat cells were subjected to SDS PAGE followed by western blot with 11678-1-AP (ARPP-19 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 11678-1-AP (ARPP-19 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-ARPP-19 (IP:11678-1-AP, 3ug; Detection:11678-1-AP 1:500) with mouse brain tissue lysate 5200ug.



Immunofluorescent analysis of A375 cells using 11678-1-AP (ARPP-19 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).