

For Research Use Only

Septin 4 Polyclonal antibody

Catalog Number:12476-1-AP

Featured Product

7 Publications



Basic Information

Catalog Number:

12476-1-AP

Size:

150ul , Concentration: 450 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3185

GenBank Accession Number:

BC018056

GeneID (NCBI):

5414

UNIPROT ID:

O43236

Full Name:

septin 4

Calculated MW:

459 aa, 53 kDa

Observed MW:

54 kDa, 52 kDa, 48 kDa, 44 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IF, IP, ColP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : mouse brain tissue, A375 cells, rat brain tissue, mouse cerebellum tissue

IP : A375 cells,

IHC : mouse brain tissue,

IF/ICC : hTERT-RPE1 cells,

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

Background Information

Spetin 4 is a member of the septin family of nucleotide binding proteins, originally described in yeast as cell division cycle regulatory proteins. Spetin 4 was widely expressed in brain and heart, also expressed in colorectal cancers and malignant melanomas. This protein has been implicated in diverse cellular functions, including cytokinesis, apoptosis, and tumor suppression(PMID:15737931). There are several isoforms of SEPTIN4, four of which were detected in the mouse brain and mouse cerebellum, 54 kDa, 52 kDa, 48 kDa and 44 kDa respectively(PMID: 23938054; PMID: 26657011).

Notable Publications

Author	Pubmed ID	Journal	Application
Naijin Zhang	32025217	Int J Biol Sci	WB
Xinying Cai	39516485	Cell Death Dis	WB
Bin Mao	38978230	Asian J Androl	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

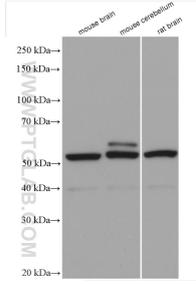
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

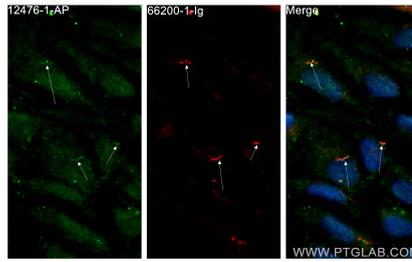
E: proteintech@ptglab.com
W: ptglab.com

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

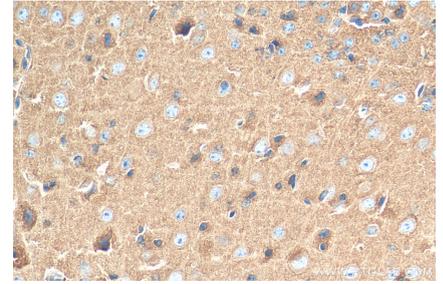
Selected Validation Data



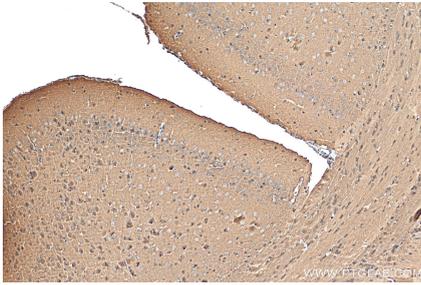
Various lysates were subjected to SDS PAGE followed by western blot with 12476-1-AP (Septin 4 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



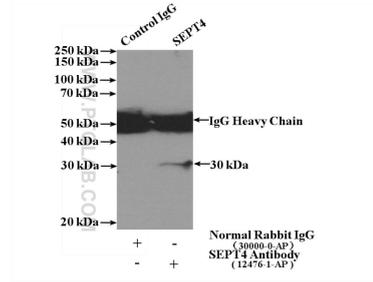
Immunofluorescent analysis of (4% PFA) fixed hTERT-RPE1 cells using Septin 4 antibody (12476-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L), acetylated Tubulin(Lys40) antibody (66200-1-Ig, Clone: 7E5H8, red).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12476-1-AP (Septin 4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12476-1-AP (Septin 4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-Septin 4 (IP:12476-1-AP, 4ug; Detection:12476-1-AP 1:300) with A375 cells lysate 2200ug.