

For Research Use Only

Septin 4 Polyclonal antibody

Catalog Number: 12476-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number: 12476-1-AP	GenBank Accession Number: BC018056	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 133 µg/ml by Nanodrop and 133 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5414	Recommended Dilutions: WB 1:1000-1:8000 IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB
Source: Rabbit	Full Name: septin 4	IHC 1:50-1:500 IF 1:200-1:800
Isotype: IgG	Calculated MW: 459 aa, 53 kDa	
Immunogen Catalog Number: AG3185	Observed MW: 54 kDa, 52 kDa, 48 kDa, 44 kDa	

Applications

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

Cited Applications:
CoIP, IF, IP, WB

Species Specificity:
human, mouse , rat

Cited Species:
human, mouse

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

IP : A375 cells,

IHC : mouse brain tissue,

IF : hTERT-RPE1 cells,

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
Zeyu Yin	37557013	Biomed Pharmacother	WB
Mohan Liu	37424856	Front Endocrinol (Lausanne)	IF,CoIP

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

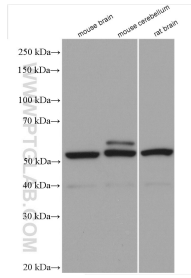
For technical support and original validation data for this product please contact:

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

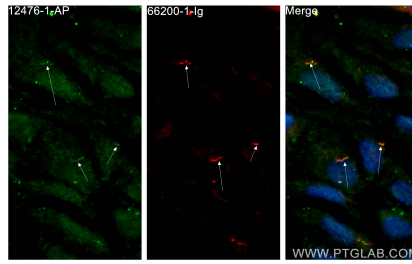
E: proteintech@ptglab.com
W: ptglab.com

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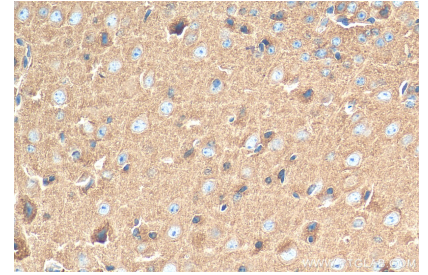
Selected Validation Data



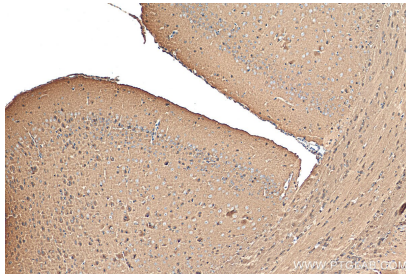
Various lysates were subjected to SDS PAGE followed by western blot with 12476-1-AP (Septin 4 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



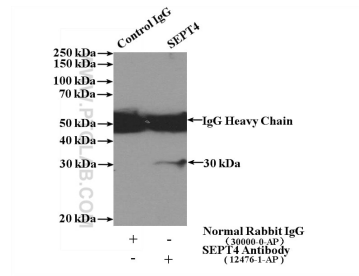
Immunofluorescent analysis of (4% PFA) fixed hTERT-RPE1 cells using Septin 4 antibody (12476-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), acetylated Tubulin(Lys40) antibody (66200-1-Ig, Clone: 7E5H8, red).



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.