

For Research Use Only

# Septin 4 Polyclonal antibody

Catalog Number: 12476-1-AP

Featured Product

4 Publications



## Basic Information

**Catalog Number:**

12476-1-AP

**Size:**

450 µg/ml

**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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF 1:200-1:800

## Applications

**Tested Applications:**

IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:**

WB, IP, IF, ColP

**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, ColP

## 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:

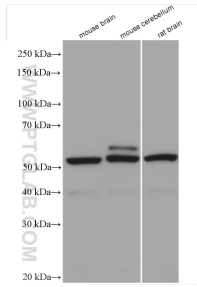
T: 4006900926

E: Proteintech-CN@ptglab.com

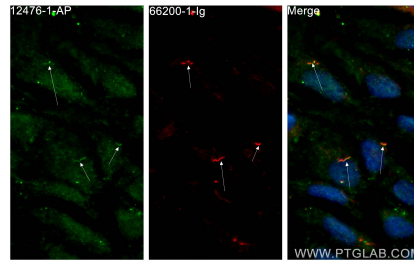
W: ptgcn.com

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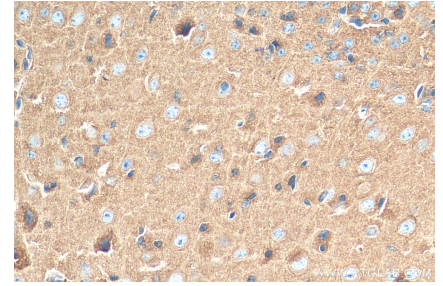
## Selected Validation Data



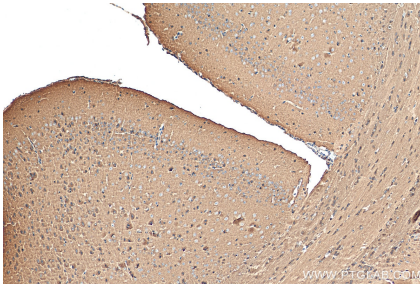
Various lysates were subjected to SDS PAGE followed by western blot with 12476-1-AP (Septin 4 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



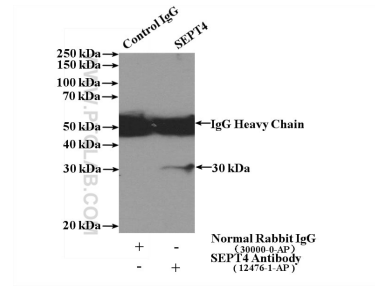
Immunofluorescent analysis of (4% PFA) fixed hTERT-RPE1 cells using Septin 4 antibody (12476-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), acetylated Tubulin(Lys40) antibody (66200-1-Ig, Clone: 7E5H8, red).



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.