

For Research Use Only

# Septin 2 Polyclonal antibody

Catalog Number: 11397-1-AP

Featured Product

23 Publications



## Basic Information

<b>Catalog Number:</b> 11397-1-AP	<b>GenBank Accession Number:</b> BC014455	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 450 µg/ml by Nanodrop and 293 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 4735	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> septin 2	<b>IHC 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 41 kDa	<b>IF 1:50-1:500</b>
<b>Immunogen Catalog Number:</b> AG1946	<b>Observed MW:</b> 45 kDa	

## Applications

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

**Cited Applications:**  
IF, IP, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, rat, 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, mouse heart tissue, HeLa cells, human skeletal muscle tissue, rat brain tissue, C6 cells, HEK-293 cells, K-562 cells, Jurkat cells

**IP:** mouse brain tissue,

**IHC:** human liver cancer tissue, human pancreas cancer tissue

**IF:** HepG2 cells, hTERT-RPE1 cells and Mouse embryonic fibroblasts

## Background Information

Septin-2, also named as DIFF6, KIAA0158, NEDD5 and SEPT2, belongs to the septin family. It is a filament-forming cytoskeletal GTPase. SEPT2 is required for normal organization of the actin cytoskeleton. It plays a role in ciliogenesis and collective cell movements. SEPT2 is coordinated expression with SEPT6 and SEPT7. (PMID:21737677)

## Notable Publications

Author	Pubmed ID	Journal	Application
Sellin Mikael E ME	21737677	Mol Biol Cell	WB
Larisa Volceanov	25293760	MBio	WB, IF, IP
Wei Zhang	33200802	Mol Med Rep	WB

## Storage

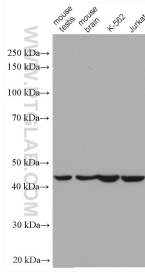
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

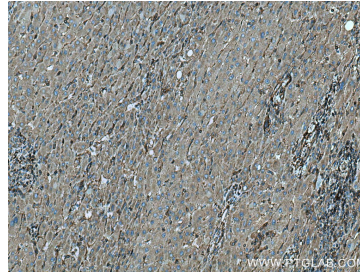
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

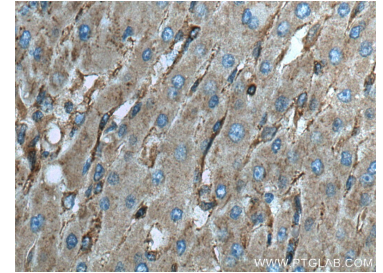
## Selected Validation Data



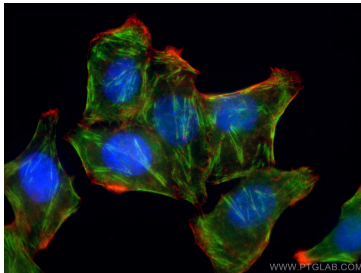
Various lysates were subjected to SDS PAGE followed by western blot with 11397-1-AP (Septin 2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



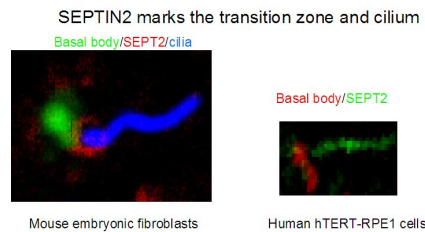
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 11397-1-AP (Septin 2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 11397-1-AP (Septin 2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

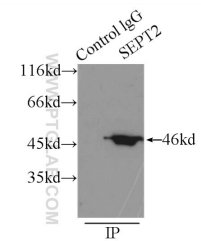


Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 11397-1-AP (Septin 2 antibody), at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

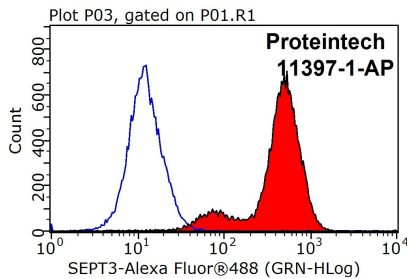


SEPTIN2 marks the transition zone and cilium  
Basal body/SEPT2/cilia  
Basal body/SEPT2  
Mouse embryonic fibroblasts Human hTERT-RPE1 cells

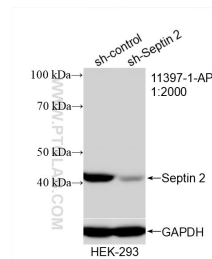
IF result from Dr. Kevin Corbit. Septin 2 (11397-1-AP) marks the transition zone and cilium of Human hTERT-RPE1 cells and Mouse embryonic fibroblasts.



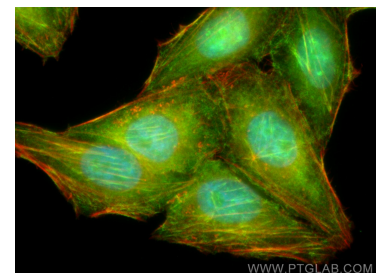
IP Result of anti-Septin 2 (IP:11397-1-AP, 3ug; Detection:11397-1-AP 1:1000) with mouse brain tissue lysate 5000ug.



1X10<sup>6</sup> MCF-7 cells were stained with 0.2ug Septin 2 antibody (11397-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



WB result of Septin 2 antibody (11397-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Septin 2 transfected HEK-293 cells.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Septin 2 antibody (11397-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).