

For Research Use Only

# NCS1 Polyclonal antibody

Catalog Number: 10506-2-AP

Featured Product

3 Publications



## Basic Information

### Catalog Number:

10506-2-AP

### Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 500 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0784

### GenBank Accession Number:

BC004856

### GeneID (NCBI):

23413

### UNIPROT ID:

P62166

### Full Name:

frequenin homolog (Drosophila)

### Calculated MW:

22 kDa

### Observed MW:

22 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

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

IHC 1:50-1:500

IF-P 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF-P, FC (Intra), IP, ELISA

### Cited Applications:

WB, ColP

### Species Specificity:

human, mouse, rat

### Cited Species:

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, A431 cells, HepG2 cells, human brain tissue, mouse cerebellum tissue, PC-3 cells, rat brain tissue, SH-SY5Y cells

**IP**: mouse brain tissue,

**IHC**: human cerebellum tissue, human brain tissue

**IF-P**: mouse cerebellum tissue,

## Background Information

NCS1 is a member of the neuronal calcium sensor gene family. It regulates G protein-coupled receptor phosphorylation in a calcium-dependent manner and can substitute for calmodulin. The protein is associated with secretory granules and modulates synaptic transmission and synaptic plasticity.

## Notable Publications

Author	Pubmed ID	Journal	Application
Bechara J Saab	19755107	Neuron	WB
Ho-Suk Mun	26639399	Sci Rep	WB
Lucie Crouzier	35138910	Sci Transl Med	WB, 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

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

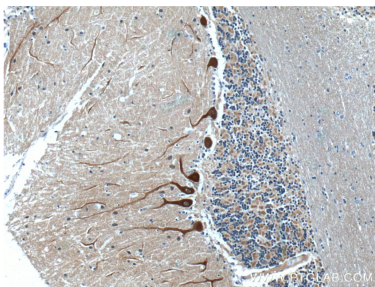
For technical support and original validation data for this product please contact:

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

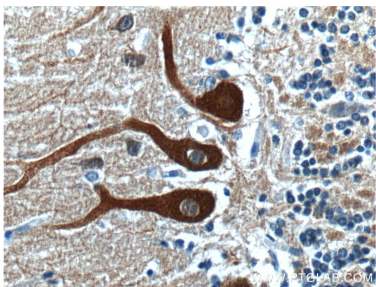
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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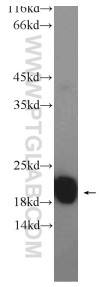
Selected Validation Data



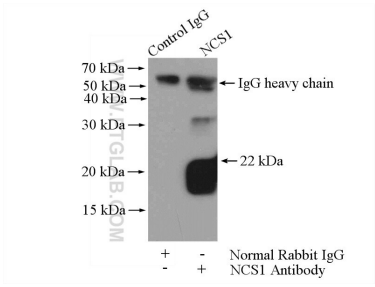
Immunohistochemical analysis of paraffin-embedded human cerebellum tissue slide using 10506-2-AP (NCS1 antibody at dilution of 1:200 (under 10x lens).



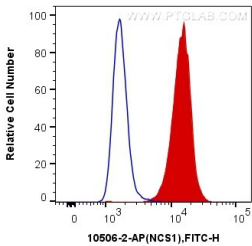
Immunohistochemical analysis of paraffin-embedded human cerebellum tissue slide using 10506-2-AP (NCS1 antibody at dilution of 1:200 (under 40x lens).



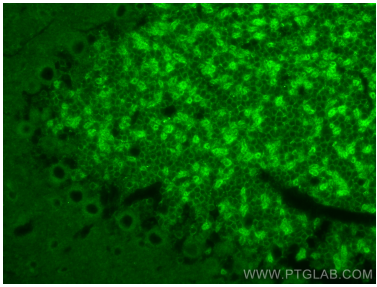
mouse brain tissue were subjected to SDS PAGE followed by western blot with 10506-2-AP (NCS1 antibody at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-NCS1 (IP:10506-2-AP, 4ug; Detection:10506-2-AP 1:1000) with mouse brain tissue lysate 4000ug.



1X10<sup>6</sup> SH-SY5Y cells were intracellularly stained with 0.2 ug Anti-Human NCS1 (10506-2-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse cerebellum tissue using NCS1 antibody (10506-2-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).