For Research Use Only

NCS1 Polyclonal antibody

Catalog Number:10506-2-AP Featured Product 3 Publications

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Basic Information

Catalog Number:
10506-2-AP

Size:
1000 ug/ml

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, CoIP

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

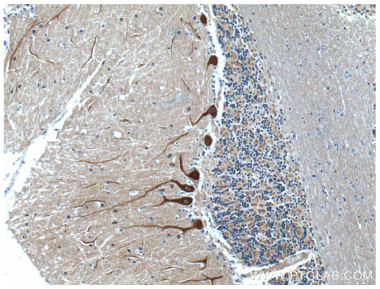
Author	Pubmed ID	Journal	Application
Bechara J Saab	19755107	Neuron	WB
Ho-Suk Mun	26639399	Sci Rep	WB
Lucie Crouzier	35138910	Sci Transl Med	WB,CoIP

Storage

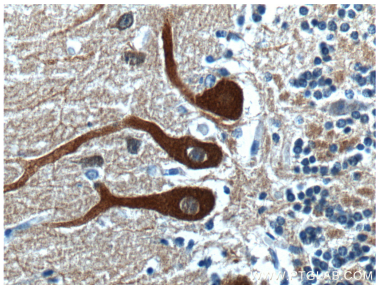
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

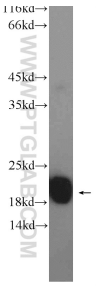
Selected Validation Data



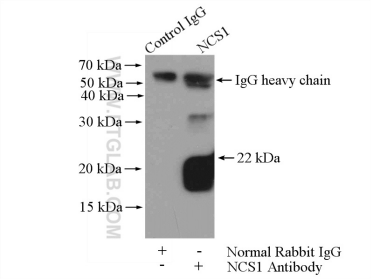
Immunohistochemical analysis of paraffin-embedded human cerebellum tissue slide using 10506-2-AP (NCS1 antibody at dilution of 1:200 (under 10x lens).



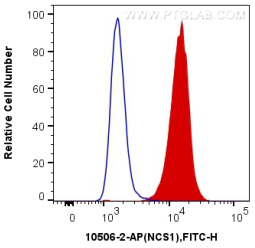
Immunohistochemical analysis of paraffin-embedded human cerebellum tissue slide using 10506-2-AP (NCS1 antibody at dilution of 1:200 (under 40x lens).



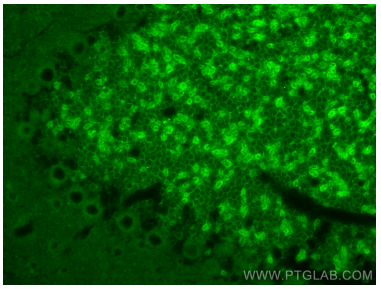
mouse brain tissue were subjected to SDS PAGE followed by western blot with 10506-2-AP (NCS1 antibody at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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



1X10^6 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).