For Research Use Only

CLN3 Polyclonal antibody

Catalog Number:20386-1-AP

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
20386-1-AP

Size:
500 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG14224

GenBank Accession Number:
BC002394

GeneID (NCBI):
1201

UNIPROT ID:
Q13286

Full Name:
ceroid-lipofuscinosis, neuronal 3

Calculated MW:
438 aa, 48 kDa

Observed MW:
45-48 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:3000
IHC 1:20-1:200
IF/ICC 1:10-1:100

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human, mouse, rat

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 : Jurkat cells, SH-SY5Y cells, Raji cells

IHC : human brain tissue,

IF/ICC : HepG2 cells,

Background Information

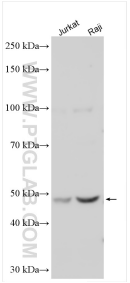
Neuronal ceroid lipofuscinosis (NCL, or Batten disease) refers to a group of lethal pediatric neurodegenerative diseases originating from mutations in one of the thus far identified 13 CLN genes (Ceroid Lipofuscinosis, Neuronal type; CLN1 to CLN14) (PMID: 25051496). CLN3 is a multi-membrane spanning protein that is involved in microtubule-dependent, anterograde transport of late endosomes and lysosomes. The CLN3 gene is located on chromosome 16p12.1and produces three mRNA splicing variants. The 438-amino-acid CLN3 protein has a calculated molecular weight of 48 kDa. It has been reported that CLN3 can be glycosylated and form homodimeric complex (PMID: 10356317; 17286803).

Storage

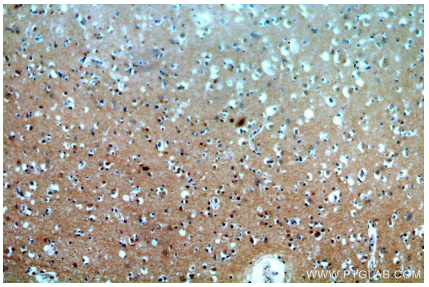
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

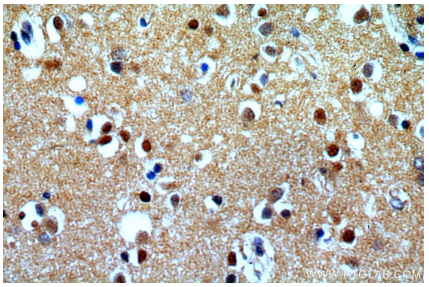
Selected Validation Data



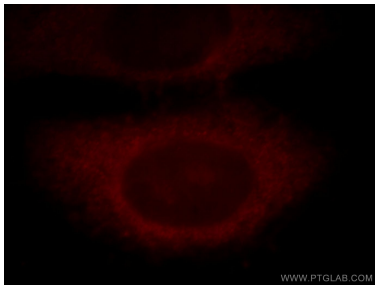
Various lysates were subjected to SDS PAGE followed by western blot with 20386-1-AP (CLN3 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human brain using 20386-1-AP (CLN3 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain using 20386-1-AP (CLN3 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HepG2 cells, using CLN3 antibody 20386-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).