

For Research Use Only

CLN3 Polyclonal antibody

Catalog Number: 20386-1-AP



Basic Information

Catalog Number: 20386-1-AP	GenBank Accession Number: BC002394	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 300 ug/ml by Nanodrop and 247 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1201	Recommended Dilutions: WB 1:500-1:3000
Source: Rabbit	UNIPROT ID: Q13286	IHC 1:20-1:200
Isotype: IgG	Full Name: ceroid-lipofuscinosis, neuronal 3	IF/ICC 1:10-1:100
Immunogen Catalog Number: AG14224	Calculated MW: 438 aa, 48 kDa	
	Observed MW: 45-48 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : Jurkat cells, SH-SY5Y cells, Raji cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	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 16p12.1 and 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

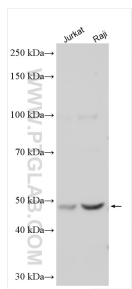
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

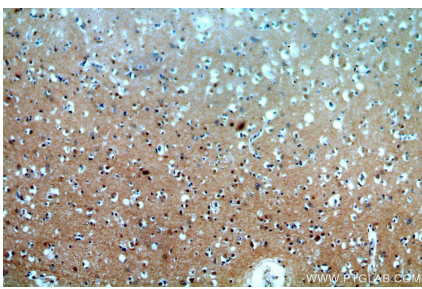
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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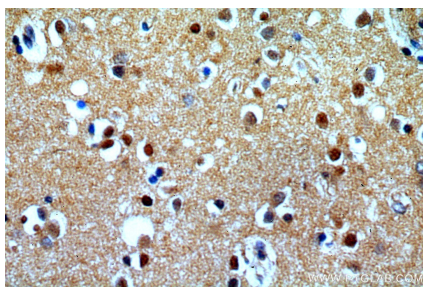
Selected Validation Data



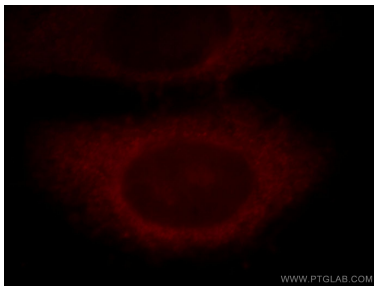
Various lysates were subjected to SDS PAGE followed by western blot with 20386-1-AP (CLN3 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



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).