

For Research Use Only

# CLN5 Recombinant antibody

Catalog Number: 85378-1-RR



## Basic Information

<b>Catalog Number:</b> 85378-1-RR	<b>GenBank Accession Number:</b> BC153154	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1203	<b>CloneNo.:</b> 242812H6
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O75503	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IF/ICC 1:250-1:1000
<b>Isotype:</b> IgG	<b>Full Name:</b> ceroid-lipofuscinosis, neuronal 5	
<b>Immunogen Catalog Number:</b> AG18175	<b>Calculated MW:</b> 407 aa, 46 kDa	
	<b>Observed MW:</b> 48 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse	<b>WB :</b> LNCaP cells, HepG2 cells, A549 cells, HEK-293T cells, NIH/3T3 cells
	<b>IF/ICC :</b> A431 cells,

## Background Information

The CLN5 (ceroid lipofuscinosis neuronal protein 5) protein is ubiquitously expressed in the majority of tissues studied and in the brain, CLN5 shows both neuronal and glial cell expression. CLN5 plays a role in maintaining an acidic environment in the lysosomes, a critical feature for a functional lysosome (PMID: 38236309). Moreover, CLN5-deficient neuronal progenitor cells showed reduced thioesterase activity, confirming the live cell function of CLN5 in setting S-depalmitoylation levels (PMID: 35427157).

## Storage

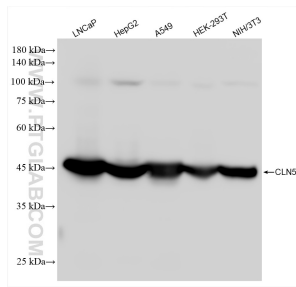
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

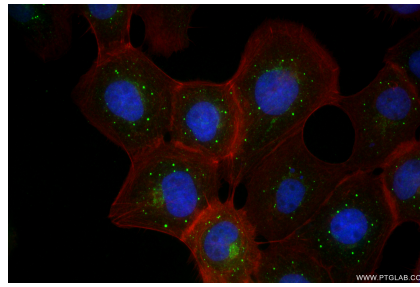
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85378-1-RR (CLN5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using CLN5 antibody (85378-1-RR, Clone: 242812H6) at dilution of 1:500 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).