

## Product datasheet

# Anti-CLN5 antibody [EPR12197(B)] ab170899

Recombinant RabMAb

★★★★★ 1 Abreviews 8 References 8 Images

### Overview

<b>Product name</b>	Anti-CLN5 antibody [EPR12197(B)]
<b>Description</b>	Rabbit monoclonal [EPR12197(B)] to CLN5
<b>Host species</b>	Rabbit
<b>Specificity</b>	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
<b>Tested applications</b>	<b>Suitable for:</b> ICC, WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide within Human CLN5 aa 150-250 (Cysteine residue). The exact sequence is proprietary. Database link: <a href="#">O75503</a> (Peptide available as <a href="#">ab204069</a> )
<b>Positive control</b>	WB: Fetal kidney tissue lysate. T47-D, A431, NIH/3T3, A549, and HepG2 whole cell lysates; IHC: Human kidney and liver tissue; ICC: A431 and T-47D cells.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> . <b>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</b>

### Properties

**Form** Liquid

<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR12197(B)
<b>Isotype</b>	IgG

## Applications

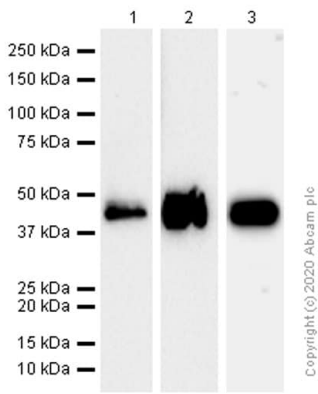
**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab170899 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC		1/50. <b>For unpurified use at 1/100-1/250 dilution.</b>
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 41 kDa.
IHC-P		1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. For unpurified use at 1/100-1/120 dilution.  The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.

## Target

<b>Tissue specificity</b>	Ubiquitous.
<b>Involvement in disease</b>	Defects in CLN5 are the cause of neuronal ceroid lipofuscinosis type 5 (CLN5) [MIM:256731]; also known as Finnish variant late-infantile neuronal ceroid lipofuscinosis (vLINCL). A form of neuronal ceroid lipofuscinosis. Neuronal ceroid lipofuscinoses are progressive neurodegenerative, lysosomal storage diseases characterized by intracellular accumulation of autofluorescent liposomal material, and clinically by seizures, dementia, visual loss, and/or cerebral atrophy. The lipopigment patterns observed most often in neuronal ceroid lipofuscinosis type 5 comprise mixed combinations of granular, curvilinear, and fingerprint profiles.
<b>Sequence similarities</b>	Belongs to the CLN5 family.
<b>Post-translational modifications</b>	Glycosylated.
<b>Cellular localization</b>	Lysosome.

## Images



Western blot - Anti-CLN5 antibody [EPR12197(B)] (ab170899)

**All lanes** : Anti-CLN5 antibody [EPR12197(B)] (ab170899) at 1/1000 dilution (purified)

**Lane 1** : NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate

**Lane 2** : HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysate

**Lane 3** : A549 (Human lung carcinoma epithelial cell) whole cell lysate

Lysates/proteins at 15 µg per lane.

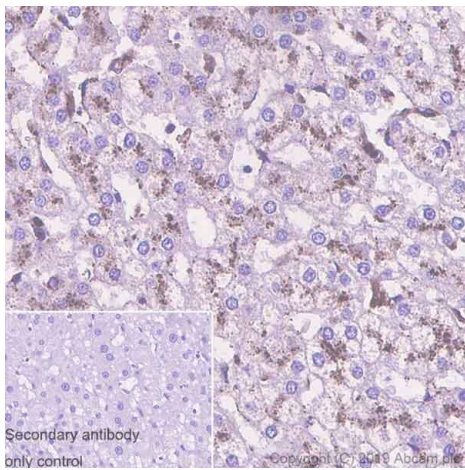
### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

**Predicted band size:** 41 kDa

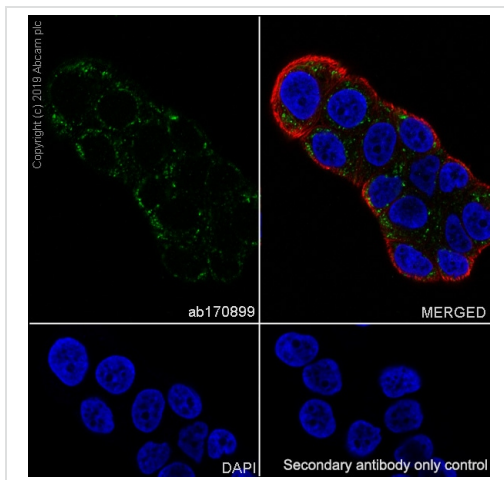
**Observed band size:** 48-52 kDa

The molecular weights observed are consistent with what have been described in the literature (PMID: 26342652).



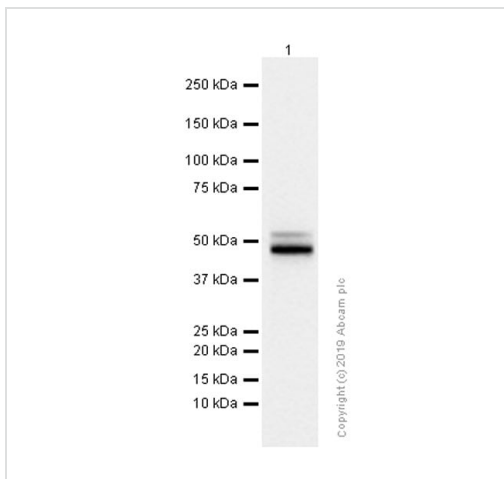
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CLN5 antibody [EPR12197(B)] (ab170899)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver tissue sections labeling CLN5 with purified ab170899 at 1/2000 dilution (0.22 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunocytochemistry - Anti-CLN5 antibody  
[EPR12197(B)] (ab170899)

Immunocytochemistry/ Immunofluorescence analysis of T-47D (Human ductal breast epithelial tumor epithelial cell) cells labeling CLN5 with purified ab170899 at 1/50 dilution (8.7 µg/mL). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% TritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Western blot - Anti-CLN5 antibody [EPR12197(B)]  
(ab170899)

Anti-CLN5 antibody [EPR12197(B)] (ab170899) at 1/5000 dilution (purified) + C6 (Rat glial tumor glial cell) whole cell lysate at 15 µg

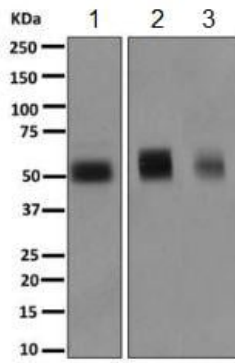
### Secondary

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

**Predicted band size:** 41 kDa

**Observed band size:** 48-52 kDa

The molecular weights observed are consistent with what have been described in the literature (PMID: 26342652).



Western blot - Anti-CLN5 antibody [EPR12197(B)] (ab170899)

**All lanes :** Anti-CLN5 antibody [EPR12197(B)] (ab170899) at 1/1000 dilution (unpurified)

**Lane 1 :** Fetal kidney lysate

**Lane 2 :** T47-D cell lysate

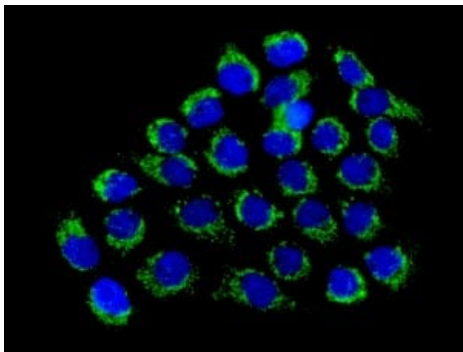
**Lane 3 :** A431 cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

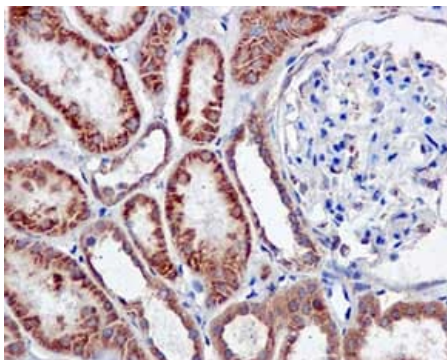
**All lanes :** Goat anti-rabbit HRP at 1/2000 dilution

**Predicted band size:** 41 kDa



Immunocytochemistry - Anti-CLN5 antibody [EPR12197(B)] (ab170899)

Immunofluorescent analysis of A431 cells labeling CLN5 with unpurified ab170899 at 1/100 dilution (green). DAPI nuclear staining (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CLN5 antibody [EPR12197(B)] (ab170899)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling CLN5 with unpurified ab170899 at 1/100 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-CLN5 antibody [EPR12197(B)] (ab170899)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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