

## 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> WB, IHC-P, ICC/IF
<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/IF: 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> .

#### Properties

<b>Form</b>	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

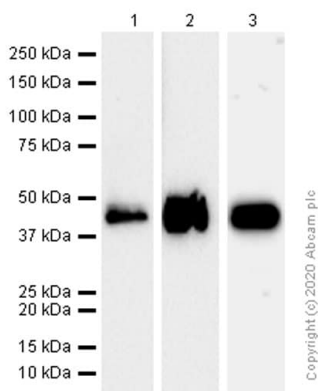
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab170899 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 41 kDa.
<b>IHC-P</b>		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.
<b>ICC/IF</b>		1/50. <b>For unpurified use at 1/100-1/250 dilution.</b>

## 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.

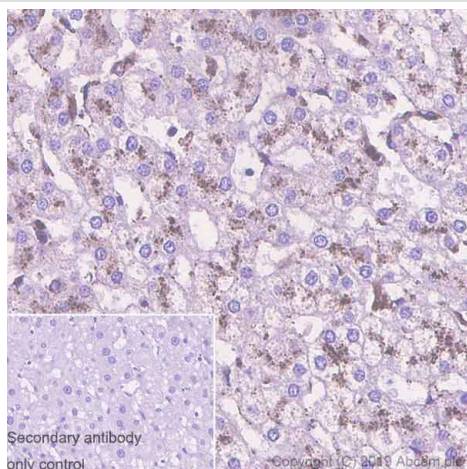
## Secondary

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

**Predicted band size:** 41 kDa

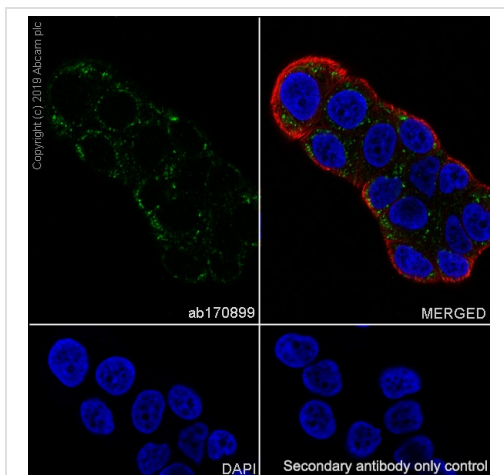
**Observed band size:** 48-52 kDa

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



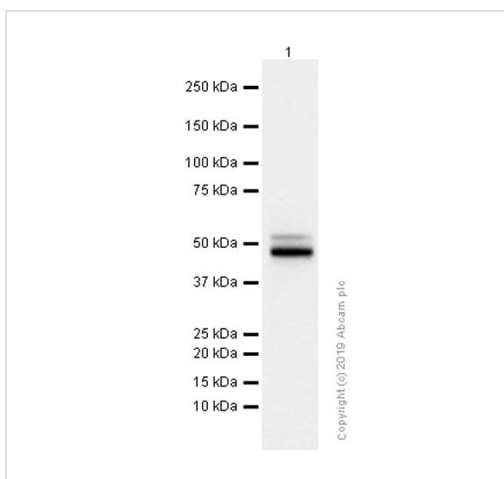
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CLN5 antibody [EPR12197(B)] (ab170899)

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/ Immunofluorescence - 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

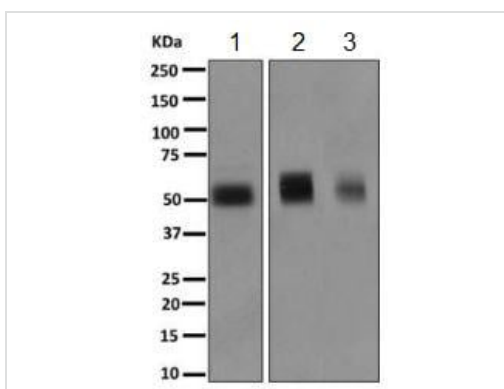
#### Secondary

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

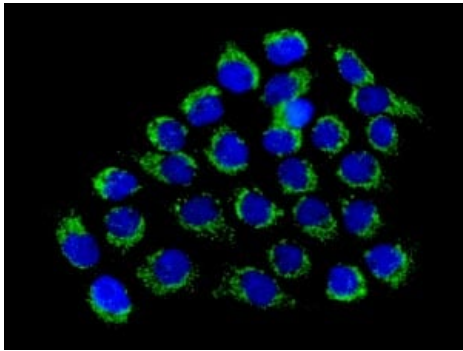
**Lane 3 :** A431 cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

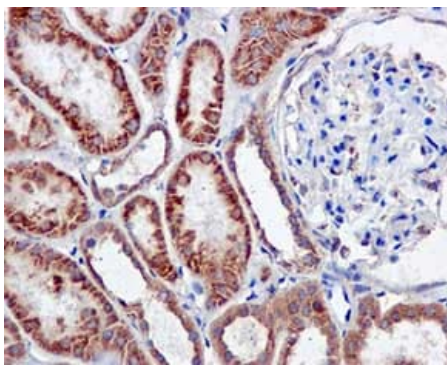
**All lanes :** Goat anti-rabbit HRP at 1/2000 dilution

**Predicted band size:** 41 kDa



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

Immunocytochemistry/ Immunofluorescence - 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.

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

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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