

Anti-CLN5 antibody [EPR12197(B)] - BSA and Azide free ab238931

Recombinant RabMAb

7 Images

Overview

Product name	Anti-CLN5 antibody [EPR12197(B)] - BSA and Azide free
Description	Rabbit monoclonal [EPR12197(B)] to CLN5 - BSA and Azide free
Host species	Rabbit
Specificity	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
Tested applications	Suitable for: IHC-P, ICC/IF, WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	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.
General notes	ab238931 is the carrier-free version of ab170899 .

Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.

This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR12197(B)
Isotype	IgG

Applications

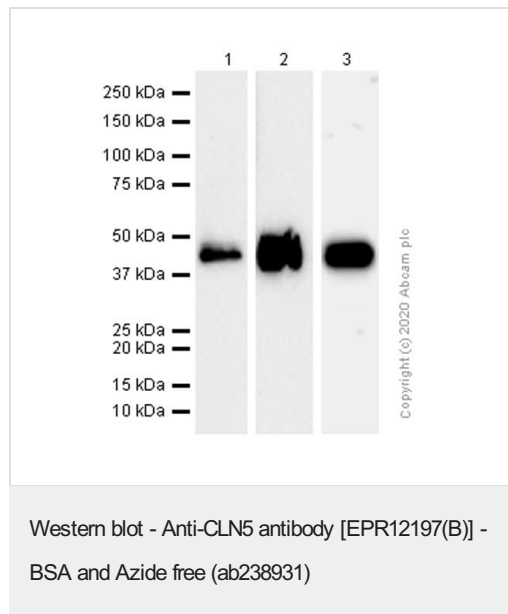
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab238931 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 41 kDa.

Target

Tissue specificity	Ubiquitous.
Involvement in disease	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.
Sequence similarities	Belongs to the CLN5 family.
Post-translational modifications	Glycosylated.
Cellular localization	Lysosome.

Images



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

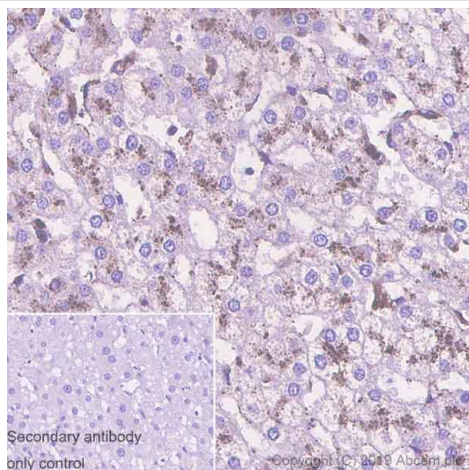
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

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).

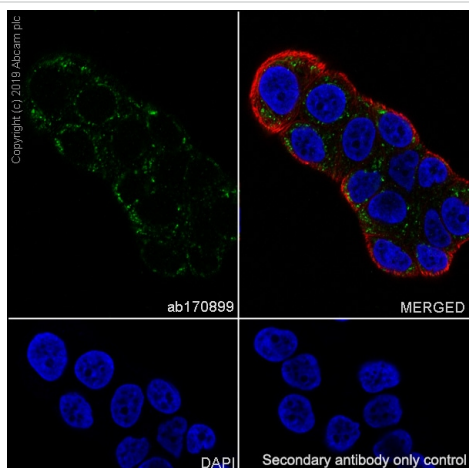
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab170899](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CLN5 antibody
[EPR12197(B)] - BSA and Azide free (ab238931)

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.

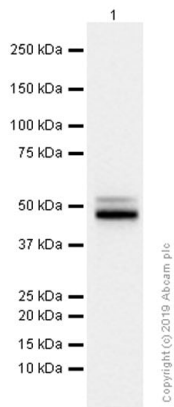
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab170899**).



Immunocytochemistry/ Immunofluorescence - Anti-CLN5 antibody [EPR12197(B)] - BSA and Azide free (ab238931)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab170899**).



Western blot - Anti-CLN5 antibody [EPR12197(B)] - BSA and Azide free (ab238931)

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

Secondary

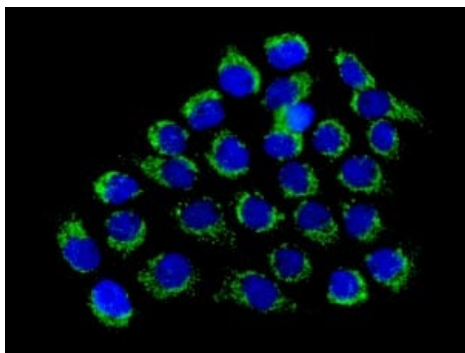
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

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).

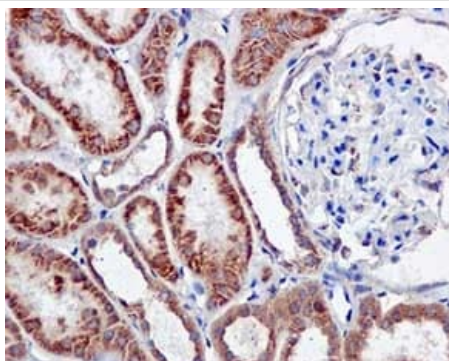
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab170899](#)).



Immunocytochemistry/ Immunofluorescence - Anti-CLN5 antibody [EPR12197(B)] - BSA and Azide free (ab238931)

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (unpurified [ab170899](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CLN5 antibody [EPR12197(B)] - BSA and Azide free (ab238931)

Immunohistochemical analysis of paraffin-embedded

Human kidney tissue labeling CLN5 with [ab170899](#) at 1/100 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (unpurified ab238931).

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)] - BSA and Azide free (ab238931)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors