abcam

Product datasheet

Anti-CLPP antibody [EPR7133] ab124822

Recombinant RabMAb

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Overview

Product name Anti-CLPP antibody [EPR7133]

Description Rabbit monoclonal [EPR7133] to CLPP

Host species Rabbit

Tested applications Suitable for: IHC-P, WB, IP

Unsuitable for: Flow Cyt

Species reactivity Reacts with: Mouse, Rat, Human

Immunogen Synthetic peptide corresponding to Human CLPP.

Positive control WB: Recombinant Human CLPP protein (ab124872), Fetal muscle, Saos-2, A431, 293T, K562,

A549, and Mouse brain lysates; IHC-P: Human liver, Mouse kidney, and Rat stomach tissues IP:

K562

General notesThis 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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle.

Storage buffer pH: 7.20

Preservative: 0.01% Sodium azide

Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA

Purity Protein A purified

Clonality Monoclonal
Clone number EPR7133

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Isotype IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab124822 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		1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See IHC antigen retrieval protocols.
WB	****(3)	1/1000 - 1/10000. Detects a band of approximately 26 kDa (predicted molecular weight: 30 kDa).
IP		1/10 - 1/100.

Application notes Is unsuitable for Flow Cyt.

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Function Clp cleaves peptides in various proteins in a process that requires ATP hydrolysis. Clp may be

responsible for a fairly general and central housekeeping function rather than for the degradation

of specific substrates.

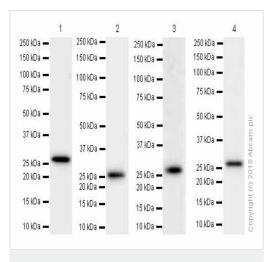
Tissue specificity Predominantly expressed in skeletal muscle. Intermediate levels in heart, liver and pancreas. Low

in brain, placenta, lung and kidney.

Sequence similarities Belongs to the peptidase S14 family.

Cellular localization Mitochondrion matrix.

Images



Western blot - Anti-CLPP antibody [EPR7133] (ab124822)

All lanes : Anti-CLPP antibody [EPR7133] (ab124822) at 0.05 μg/ml (purified)

Lane 1: 293T (Human embryonic kidney epithelial cell) whole cell lysates

Lane 2 : A549 (Human lung carcinoma epithelial cell) whole cell lysate

Lane 3 : Mouse brain lysates

Lane 4 : Rat brain lysates

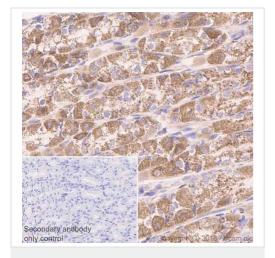
Lysates/proteins at 15 µg per lane.

Secondary

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

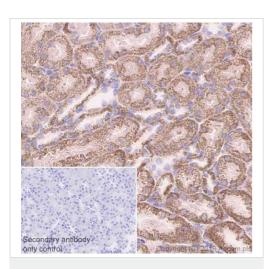
Predicted band size: 30 kDa

Blocking and diluting buffer: 5% NFDM/TBST



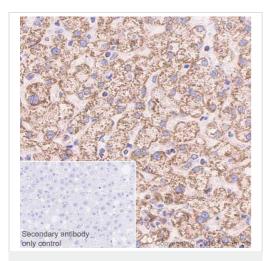
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-CLPP antibody
[EPR7133] (ab124822)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat stomach tissue sections labeling CLPP with Purified ab124822 at 1:50 dilution (2 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody.Negative control:PBS instead of the primary antibody.Hematoxylin was used as a counterstain.



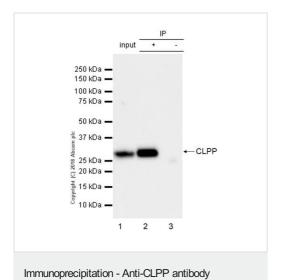
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-CLPP antibody
[EPR7133] (ab124822)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse kidney tissue sections labeling CLPP with Purified ab124822 at 1:50 dilution (2 μ g/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody.Negative control:PBS instead of the primary antibody.Hematoxylin was used as a counterstain.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-CLPP antibody
[EPR7133] (ab124822)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human liver tissue sections labeling CLPP with Purified ab124822 at 1:50 dilution (2 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody.Negative control:PBS instead of the primary antibody.Hematoxylin was used as a counterstain.



[EPR7133] (ab124822)

ab124822 (purified) at 1:20 dilution (2µg) immunoprecipitating CLPP in K562 whole cell lysate.

Lane 1 (input): K562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate 10µg

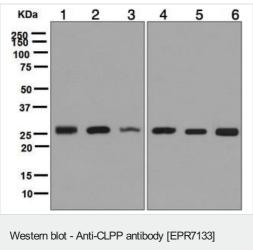
Lane 2 (+): ab124822 & K562 whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG (ab172730) instead of ab124822 in K562 whole cell lysate

For western blotting, VeriBlot for IP Detection Reagent (HRP)

(ab131366) was used for detection at 1:5000 dilution.

Blocking and diluting buffer: 5% NFDM/TBST.



(ab124822)

All lanes: Anti-CLPP antibody [EPR7133] (ab124822) at 1/1000 dilution (unpurified)

Lane 1: Fetal muscle lysate

Lane 2: Saos-2 (Human osteosarcoma cell line) cell lysate

Lane 3: A431 (Human epidermoid carcinoma cell line) cell lysate

Lane 4: HEK-293T (human epithelial cell line from embryonic

kidney transformed with large T antigen) cell lysate

Lane 5: K562 cell lysate

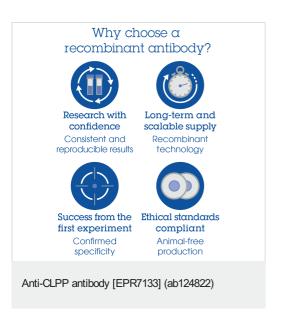
Lane 6: A549 (Human lung carcinoma cell line) cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes: HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 30 kDa Observed band size: 26 kDa



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

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