

Product datasheet

Anti-PPCEL/PREPL antibody [EPR17752] ab203111

Recombinant **RabMAb®**[1 References](#) [11 Images](#)

Overview

Product name	Anti-PPCEL/PREPL antibody [EPR17752]
Description	Rabbit monoclonal [EPR17752] to PPCEL/PREPL
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human fetal brain, MCF-7, Mouse brain, Rat brain, C6, Raw264.7, PC-12 or NIH/3T3 whole cell lysate. IHC-P: Human, Mouse or Rat cerebral cortex tissue. ICC/IF: SH-SY5Y or MCF-7 cells. Flow Cyt: MCF-7 cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none">- 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), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR17752

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab203111 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
WB		1/2000. Detects a band of approximately 72 kDa (predicted molecular weight: 84 kDa).
IHC-P		1/250. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/250.
IP		1/30.

Target

Function

Probable serine peptidase whose precise substrate specificity remains unclear. Does not cleave peptides after a arginine or lysine residue.

Tissue specificity

Widely expressed. Expressed at higher level in brain, skeletal muscle, heart and kidney.

Involvement in disease

Defects in PREPL are a cause of hypotonia-cystinuria syndrome (HCS) [MIM:606407]. HCS is characterized generalized hypotonia at birth, nephrolithiasis, growth hormone deficiency, minor facial dysmorphism, failure to thrive, followed by hyperphagia and rapid weight gain in late childhood. HCS is caused by a deletion that disrupts both SLC3A1 and PREPL genes. As SLC3A1 is known to cause isolated cystinuria type I, the extended phenotype could be attributed to the deletion of PREPL.

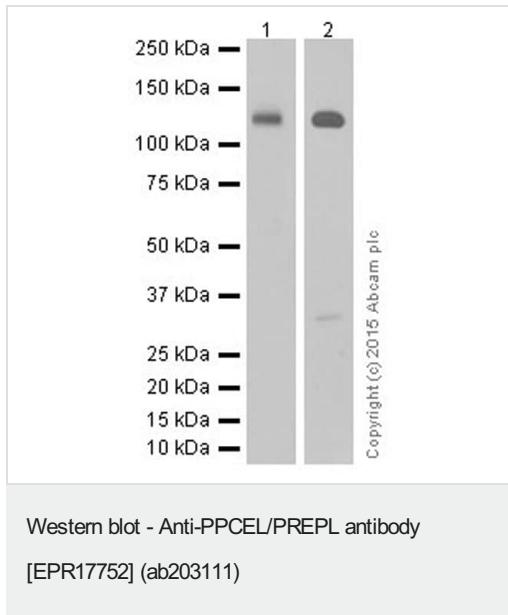
Sequence similarities

Belongs to the peptidase S9A family.

Cellular localization

Cytoplasm > cytosol.

Images



Lane 1 : Anti-PPCEL/PREPL antibody [EPR17752] (ab203111) at 1/1000 dilution

Lane 2 : Anti-GST antibody [EPR4236] (**ab111947**) at 1/10000 dilution

All lanes : Recombinant Human PPCEL/PREPL protein (**ab160557**)

Lysates/proteins at 0.01 µg per lane.

Secondary

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

Predicted band size: 84 kDa

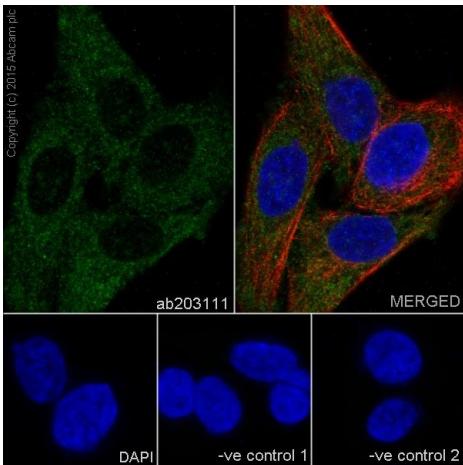
Observed band size: 109 kDa

Exposure time:

Lane 1: 3 seconds.

Lane 2: 3 minutes.

Blocking and dilution buffer: 5% NFDM/TBST.



Immunocytochemistry/ Immunofluorescence - Anti-PPCEL/PREPL antibody [EPR17752] (ab203111)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized SH-SY5Y (Human neuroblastoma from bone marrow cells) cells labeling PPCEL/PREPL with ab203111 at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

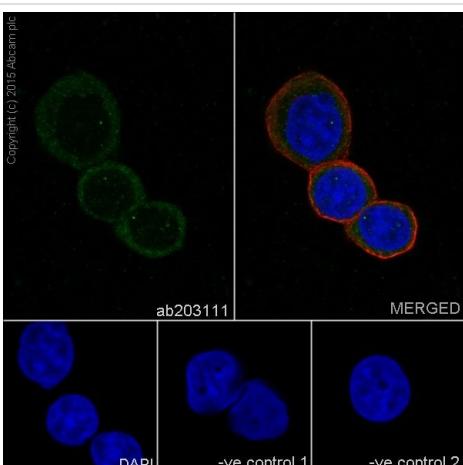
Confocal image showing cytoplasmic staining on SH-SY5Y cell line. The nuclear counterstain is DAPI (blue). Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1 - ab203111 at 1/250 dilution followed by **ab150120**

(AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.

-ve control 2. - **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-PPCEL/PREPL antibody [EPR17752] (ab203111)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized MCF-7(Human breast adenocarcinoma cell line) cells labeling PPCEL/PREPL with ab203111 at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

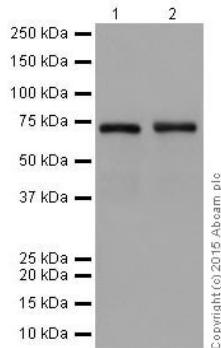
Confocal image showing cytoplasmic staining on MCF-7 cell line. The nuclear counterstain is DAPI (blue). Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1 - ab203111 at 1/250 dilution followed by **ab150120**

(AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.

-ve control 2. - **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.



Western blot - Anti-PPCEL/PREPL antibody
[EPR17752] (ab203111)

All lanes : Anti-PPCEL/PREPL antibody [EPR17752] (ab203111)
at 1/2000 dilution

Lane 1 : Human fetal brain lysate

Lane 2 : MCF-7 (Human breast adenocarcinoma cell line) whole
cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form
of IgG at 1/2000 dilution

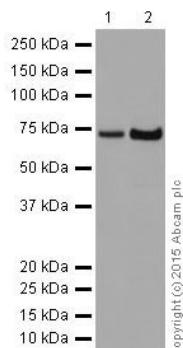
Predicted band size: 84 kDa

Observed band size: 72 kDa

Exposure time: 1 minute

Blocking/Dilution buffer 5% NFDM/TBST.

The observed MW is consistent with what has been described in
the literature PMID: 16385448.



Western blot - Anti-PPCEL/PREPL antibody
[EPR17752] (ab203111)

All lanes : Anti-PPCEL/PREPL antibody [EPR17752] (ab203111)
at 1/2000 dilution

Lane 1 : Mouse brain whole cell lysate

Lane 2 : Rat brain whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at
1/1000 dilution

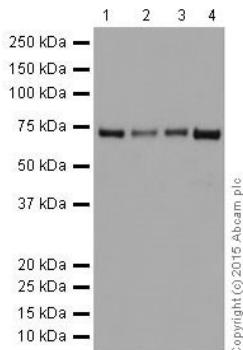
Predicted band size: 84 kDa

Observed band size: 72 kDa

Exposure time: 15 seconds

Blocking/Dilution buffer 5% NFDM/TBST.

The observed MW is consistent with what has been described in the literature PMID: 16385448.



All lanes : Anti-PPCEL/PREPL antibody [EPR17752] (ab203111) at 1/2000 dilution

Lane 1 : C6 (Rat glial tumor cells) whole cell lysate

Lane 2 : Raw264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus whole cell lysate

Lane 3 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate

Lane 4 : NIH/3T3 (Mouse embryo fibroblast cells) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 84 kDa

Observed band size: 72 kDa

Exposure time: 30 seconds

Blocking/Dilution buffer 5% NFDM/TBST.

The observed MW is consistent with what has been described in the literature PMID: 16385448.

Secondary antibody only control

Copyright (C) 2015 Abcam plc

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PPCEL/PREPL antibody [EPR17752] (ab203111)

Immunohistochemical analysis of paraffin-embedded Human cerebral cortex tissue labeling PPCEL/PREPL with ab203111 at 1/250 dilution followed by **ab97051** Goat Anti-Rabbit IgG H&L (HRP) at a 1/500 dilution. Cytoplasmic staining on Human cerebral cortex tissue is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody, secondary antibody is **ab97051** Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Secondary antibody only control

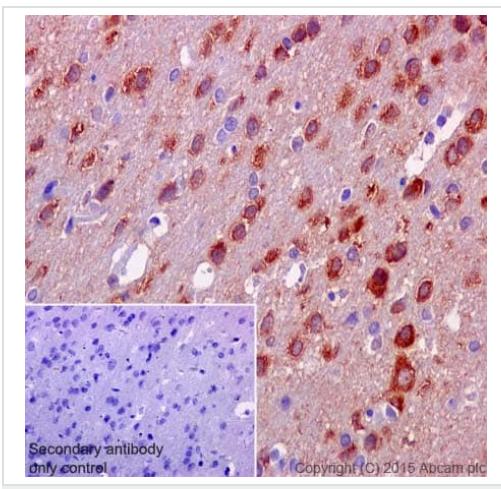
Copyright (C) 2015 Abcam plc

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PPCEL/PREPL antibody [EPR17752] (ab203111)

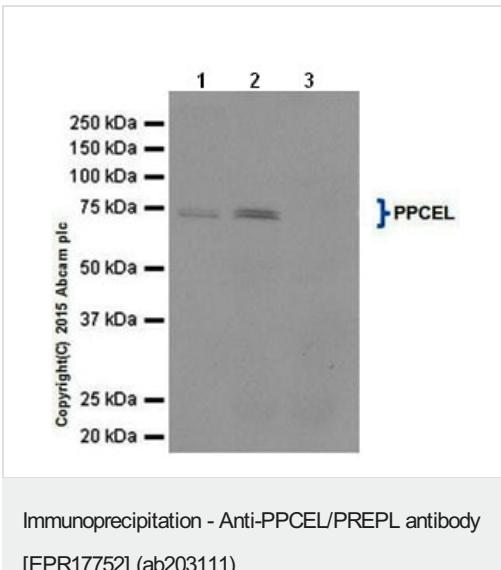
Immunohistochemical analysis of paraffin-embedded Mouse cerebral cortex tissue labeling PPCEL/PREPL with ab203111 at 1/250 dilution followed by **ab97051** Goat Anti-Rabbit IgG H&L (HRP) at a 1/500 dilution. Cytoplasmic staining on Mouse cerebral cortex tissue is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody, secondary antibody is **ab97051** Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PPCEL/PREPL antibody [EPR17752] (ab203111)



Immunoprecipitation - Anti-PPCEL/PREPL antibody [EPR17752] (ab203111)

Immunohistochemical analysis of paraffin-embedded Rat cerebral cortex tissue labeling PPCEL/PREPL with ab203111 at 1/250 dilution followed by **ab97051** Goat Anti-Rabbit IgG H&L (HRP) at a 1/500 dilution. Cytoplasmic staining on Rat cerebral cortex tissue is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody, secondary antibody is **ab97051** Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

PPCEL/PREPL was immunoprecipitated from 1mg of NIH/3T3 (Mouse embryo fibroblast cells) whole cell extract with ab203111 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab203111 at 1/1000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution.

Lane 1: NIH/3T3 whole cell extract 10 µg (Input). Lane 2: ab203111 IP in NIH/3T3 whole cell extract. Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab203111 in NIH/3T3 whole cell extract. Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 10 seconds

Blocking/Dilution Buffer: 5% NFDM/TBST

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-PPCEL/PREPL antibody [EPR17752]

(ab203111)

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