

### Anti-PPCEL/PREPL antibody [EPR17751] ab202064

Recombinant RabMAb

10 Images

#### Overview

<b>Product name</b>	Anti-PPCEL/PREPL antibody [EPR17751]
<b>Description</b>	Rabbit monoclonal [EPR17751] to PPCEL/PREPL
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB, ICC/IF, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: MCF-7, NIH/3T3, A673 cell lysate, L6 cell lysate, Mouse brain lysate, Human fetal brain lysate, Human fetal heart lysate, Human fetal kidney lysate, C6 cell lysate, Raw264.7 cell lysate, PC12 cell lysate, Human PPCEL/PREPL full length protein; ICC/IF: SH-SY5Y and MCF-7 cells; Flow Cyt (intra): NIH/3T3 cells; IP: MCF-7 cell lysate.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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> <p>For more information <a href="#">see here</a>.</p> <p>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>.</p>

#### 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>	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR17751

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab202064 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
Flow Cyt (Intra)		1/150.
WB		1/1000. Detects a band of approximately 72 kDa (predicted molecular weight: 84 kDa).
ICC/IF		1/1000.
IP		1/40.

## 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.

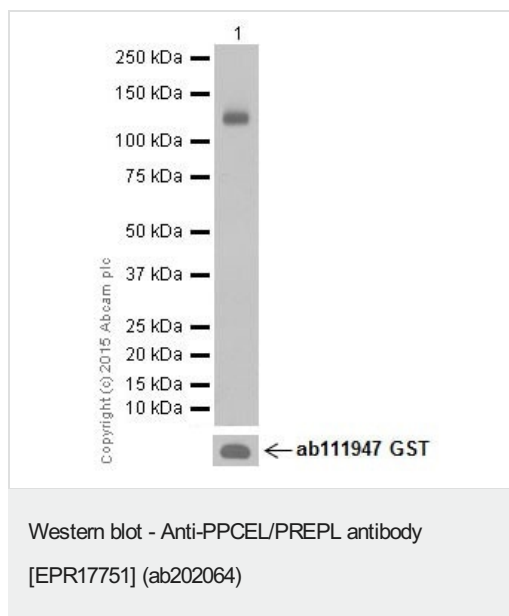
### Sequence similarities

Belongs to the peptidase S9A family.

### Cellular localization

Cytoplasm > cytosol.

## Images



Anti-PPCEL/PREPL antibody [EPR17751] (ab202064) at 1/10000 dilution + Recombinant Human PPCEL/PREPL protein ([ab160557](#))

### Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

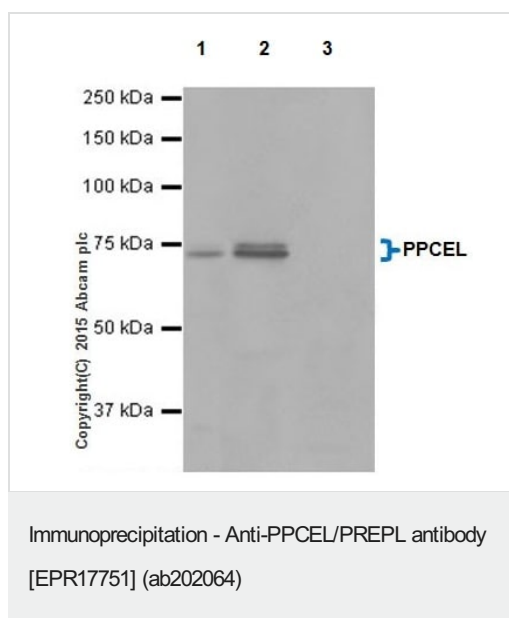
Developed using the ECL technique.

**Predicted band size:** 84 kDa

**Observed band size:** 110 kDa

**Exposure time:** 3 seconds

Blocking and diluting buffer was 5% NFDM/TBS



PPCEL/PREPL was immunoprecipitated from 1mg of MCF7 (Human breast adenocarcinoma cell line) whole cell extract with ab202064 at 1/40.

Western blot was performed using ab202064 at 1/2000.

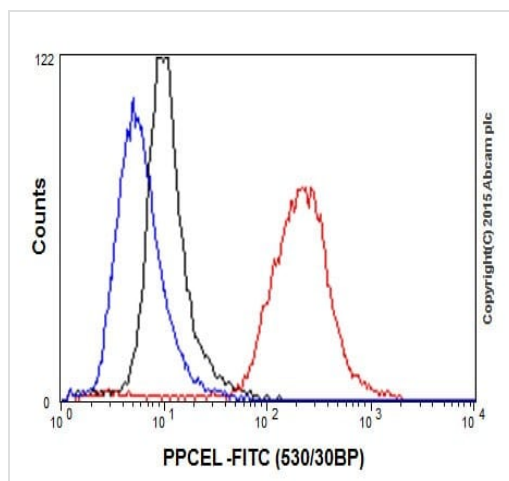
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution.

Lane 1: MCF7 whole cell lysate at 10ug.

Lane 2: Immunoprecipitate of MCF7 whole cell lysate using ab202064.

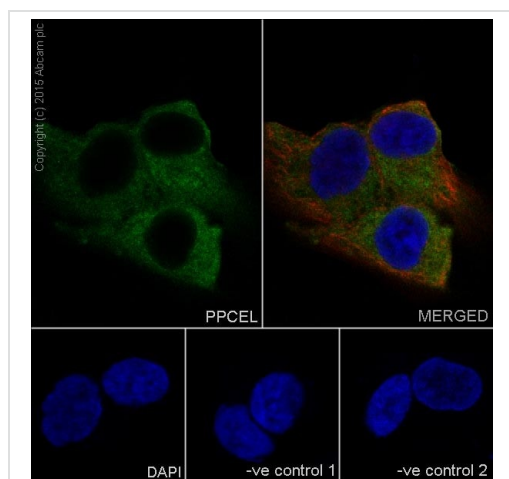
Lane 3: Immunoprecipitate of MCF7 whole cell lysate using [ab172730](#) (Rabbit monoclonal IgG).

Blocking and dilution buffer and concentration: 5% NFDM/TBST.



Flow Cytometry (Intracellular) - Anti-PPCEl/PREPL antibody [EPR17751] (ab202064)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed NIH/3T3 (Mouse embryo fibroblast) cells labeling PPCEl/PREPL with ab202064 at 1/150 (red) compared with a rabbit monoclonal IgG isotype control (**ab172730**) (black) and a unlabelled control (cells without incubation with primary antibody and secondary antibody (blue)). Goat anti rabbit IgG (FITC) at 1/500 dilution was used as the secondary antibody.



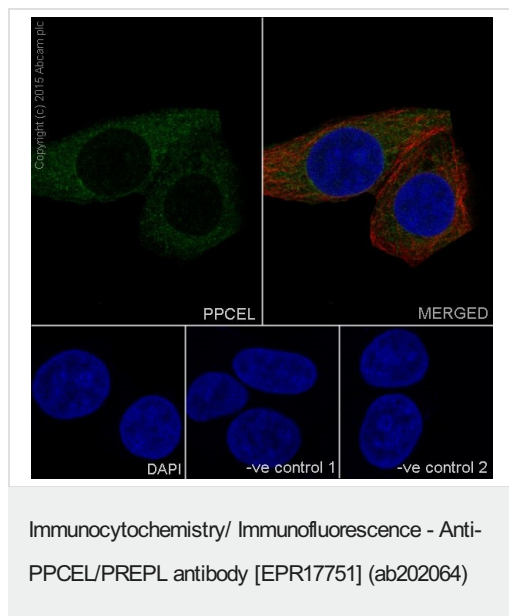
Immunocytochemistry/ Immunofluorescence - Anti-PPCEl/PREPL antibody [EPR17751] (ab202064)

Immunofluorescent analysis of 100% methanol-fixed, 0.1% Triton X-100 permeabilized SH-SY5Y (Human neuroblastoma from bone marrow cells) cells labeling PPCEl/PREPL with ab202064 at 1/1000, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor<sup>®</sup> 488) (**ab150077**) secondary antibody at 1/500 (green). Confocal image showing cytoplasmic staining on SH-SY5Y cell line. The nuclear counterstain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin mouse MAb (**ab7291**) at 1/1000 and Goat Anti-Mouse IgG H&L (Alexa Fluor<sup>®</sup> 594) (**ab150120**) at 1/500 (red).

The negative controls are as follows:-

-ve control 1 - ab202064 at 1/1000 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor<sup>®</sup> 594) (**ab150120**) secondary antibody at 1/500 dilution.

-ve control 2. - Anti-alpha Tubulin mouse MAb (**ab7291**) at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor<sup>®</sup> 488) (**ab150077**) secondary antibody at 1/500 dilution.

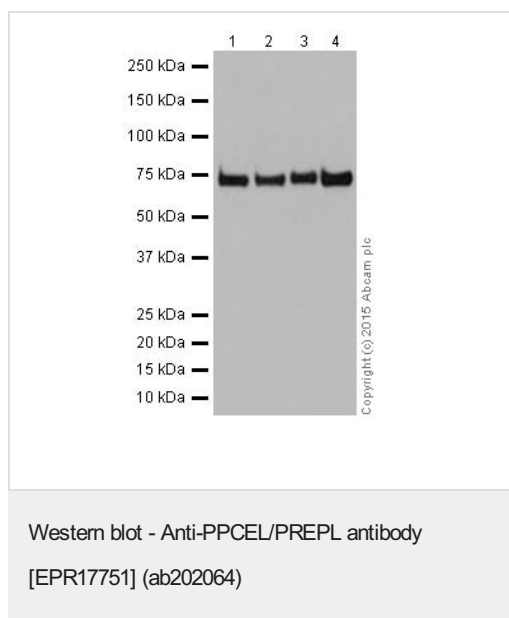


Immunofluorescent analysis of 100% methanol-fixed, 0.1% Triton X-100 permeabilized MCF7 (Human breast adenocarcinoma cell line) cells labeling PPCEL/PREPL with ab202064 at 1/1000, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/500 (green). Confocal image showing cytoplasmic staining on MCF-7 cell line. The nuclear counterstain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin mouse MAb ([ab7291](#)) at 1/1000 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) ([ab150120](#)) secondary antibody at 1/500 dilution (red).

The negative controls are as follows:-

-ve control 1: ab202064 at 1/1000 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) ([ab150120](#)) secondary at 1/500 dilution.

-ve control 2: Anti-alpha Tubulin mouse MAb ([ab7291](#)) at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary at 1/500 dilution.



**All lanes** : Anti-PPCEL/PREPL antibody [EPR17751] (ab202064) at 1/1000 dilution

**Lane 1** : C6 (Rat glial tumor cells) lysate

**Lane 2** : RAW264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) lysate

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

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

Lysates/proteins at 10 µg per lane.

## Secondary

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

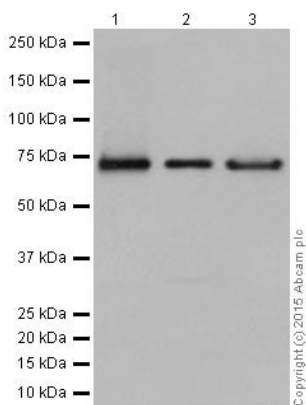
Developed using the ECL technique.

**Predicted band size:** 84 kDa

**Observed band size:** 72 kDa

**Exposure time:** 5 seconds

Blocking and diluting buffer was 5% NFDM/TBS



Western blot - Anti-PPCEL/PREPL antibody  
[EPR17751] (ab202064)

**All lanes :** Anti-PPCEL/PREPL antibody [EPR17751] (ab202064)  
at 1/1000 dilution

**Lane 1 :** Human fetal brain tissue lysate

**Lane 2 :** Human fetal heart tissue lysate

**Lane 3 :** Human fetal kidney tissue lysate

Lysates/proteins at 10 µg per lane.

### Secondary

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

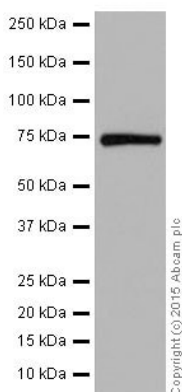
Developed using the ECL technique.

**Predicted band size:** 84 kDa

**Observed band size:** 72 kDa

**Exposure time:** 15 seconds

Blocking and diluting buffer was 5% NFDM/TBS



Western blot - Anti-PPCEL/PREPL antibody  
[EPR17751] (ab202064)

Anti-PPCEL/PREPL antibody [EPR17751] (ab202064) at 1/5000  
dilution + Mouse brain lysate at 20 µg

### Secondary

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

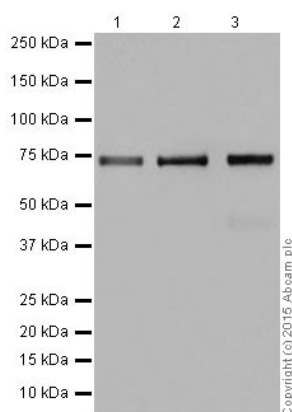
Developed using the ECL technique.

**Predicted band size:** 84 kDa

**Observed band size:** 72 kDa

**Exposure time:** 5 seconds

Blocking and diluting buffer was 5% NFDM/TBS



Western blot - Anti-PPCEL/PREPL antibody  
[EPR17751] (ab202064)

**All lanes :** Anti-PPCEL/PREPL antibody [EPR17751] (ab202064)  
at 1/5000 dilution

**Lane 1 :** A673 (Human muscle Ewing's Sarcoma cell line) lysate

**Lane 2 :** MCF7 (Human breast adenocarcinoma cell line ) lysate

**Lane 3 :** L6 (Rat skeletal muscle cell line) lysate

Lysates/proteins at 20 µg per lane.

### Secondary

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

Developed using the ECL technique.

**Predicted band size:** 84 kDa

**Observed band size:** 72 kDa

**Exposure time:** 15 seconds

Blocking and diluting buffer was 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 [EPR17751]  
(ab202064)

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