

For Research Use Only

# PMPCB Polyclonal antibody

Catalog Number: 16064-1-AP

Featured Product

23 Publications



## Basic Information

**Catalog Number:**

16064-1-AP

**Size:**

500 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG8937

**GenBank Accession Number:**

BC010398

**GeneID (NCBI):**

9512

**UNIPROT ID:**

O75439

**Full Name:**

peptidase (mitochondrial processing) beta

**Calculated MW:**

489 aa, 54 kDa

**Observed MW:**

43-52 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:3000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:300-1:1200

IF/ICC 1:10-1:100

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, ELISA

**Cited Applications:**

WB, IHC, IF

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse

**Positive Controls:**

**WB:** MCF7 cells, HepG2 cells, human liver tissue, MCF-7 cells, rat liver tissue

**IP:** MCF-7 cells,

**IHC:** human lung cancer tissue,

**IF/ICC:** HepG2 cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

PMPCB (Mitochondrial-processing peptidase subunit beta) is also named as MPPB, P-52 and belongs to the peptidase M16 family. It cleaves presequences (transit peptides) from mitochondrial protein precursors. It is a mitochondrial matrix marker and Tom70, cytochrome c heme lyase (CCHL) are markers for outer membrane, intermembrane space (PMID:12574118).

## Notable Publications

| Author             | Pubmed ID | Journal       | Application |
|--------------------|-----------|---------------|-------------|
| Olga Zurita Rendón | 30061372  | Mol Cell Biol |             |
| Béatrice Durel     | 34463964  | Biol Cell     | IF          |
| Giulia Bertolin    | 24149440  | Autophagy     | WB,IF       |

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

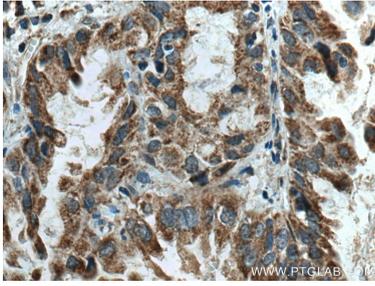
T: 4006900926

E: Proteintech-CN@ptglab.com

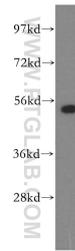
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

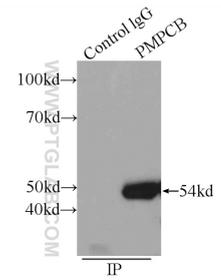
## Selected Validation Data



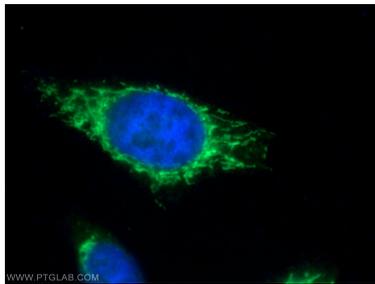
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 16064-1-AP (PMPCB antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



MCF7 cells were subjected to SDS PAGE followed by western blot with 16064-1-AP (PMPCB antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-PMPCB (IP:16064-1-AP, 3ug; Detection:16064-1-AP 1:500) with MCF-7 cells lysate 2560ug.



Immunofluorescent analysis of HepG2 cells using 16064-1-AP (PMPCB antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).