

**Anti-PMP70 Antibody**  
**Catalog # ABO11398****Specification**

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**Anti-PMP70 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC-P              |
| Primary Accession | <a href="#">P28288</a> |
| Host              | Rabbit                 |
| Reactivity        | Human, Mouse, Rat      |
| Clonality         | Polyclonal             |
| Format            | Lyophilized            |

**Description**

Rabbit IgG polyclonal antibody for ATP-binding cassette sub-family D member 3(ABCD3) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-PMP70 Antibody - Additional Information**

**Gene ID** 5825

**Other Names**

ATP-binding cassette sub-family D member 3, 70 kDa peroxisomal membrane protein, PMP70, ABCD3, PMP70, PXMP1

**Calculated MW**

75476 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat<br>Western blot, 0.1-0.5 µg/ml, Rat, Human, Mouse<br>

**Subcellular Localization**

Peroxisome membrane ; Multi-pass membrane protein .

**Protein Name**

ATP-binding cassette sub-family D member 3

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human PMP70(646-659aa EFKQITEDTVEFGS), different from the related mouse and rat sequences by one amino acid.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the ABC transporter superfamily. ABCD family. Peroxisomal fatty acyl CoA transporter (TC 3.A.1.203) subfamily.

**Anti-PMP70 Antibody - Protein Information**

**Name** ABCD3 ([HGNC:67](#))

**Function**

Broad substrate specificity ATP-dependent transporter of the ATP-binding cassette (ABC) family that catalyzes the transport of long- chain fatty acids (LCFA)-CoA, dicarboxylic acids-CoA, long-branched- chain fatty acids-CoA and bile acids from the cytosol to the peroxisome lumen for beta-oxidation (PubMed: [11248239](http://www.uniprot.org/citations/11248239)), PubMed: [24333844](http://www.uniprot.org/citations/24333844), PubMed: [25168382](http://www.uniprot.org/citations/25168382), PubMed: [29397936](http://www.uniprot.org/citations/29397936)). Has fatty acyl-CoA thioesterase and ATPase activities (PubMed: [29397936](http://www.uniprot.org/citations/29397936)). Probably hydrolyzes fatty acyl- CoAs into free fatty acids prior to their ATP-dependent transport into peroxisomes (By similarity). Thus, play a role in regulation of LCFAs and energy metabolism namely, in the degradation and biosynthesis of fatty acids by beta-oxidation (PubMed: [24333844](http://www.uniprot.org/citations/24333844), PubMed: [25944712](http://www.uniprot.org/citations/25944712)).

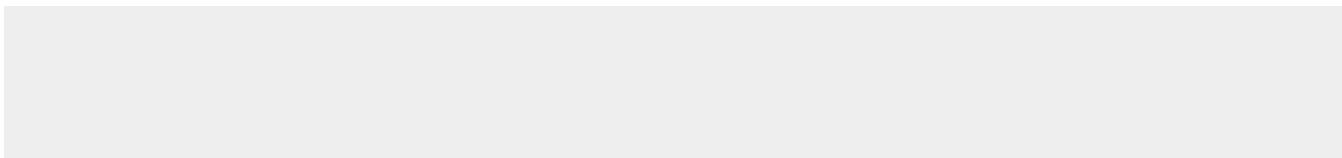
**Cellular Location**

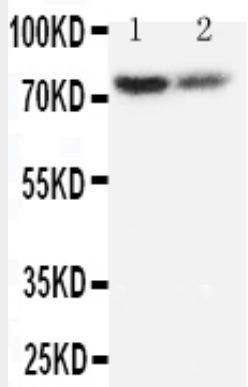
Peroxisome membrane; Multi-pass membrane protein

**Anti-PMP70 Antibody - Protocols**

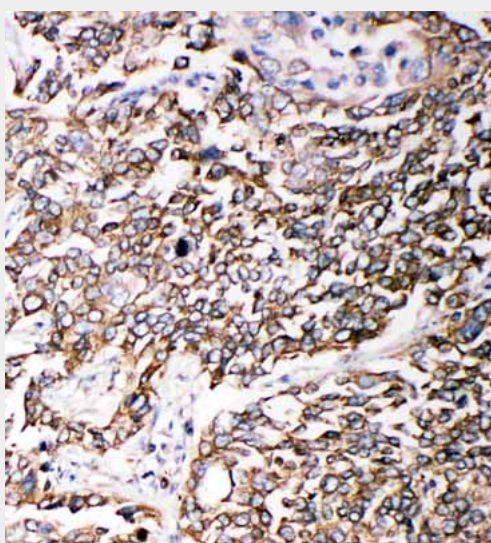
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

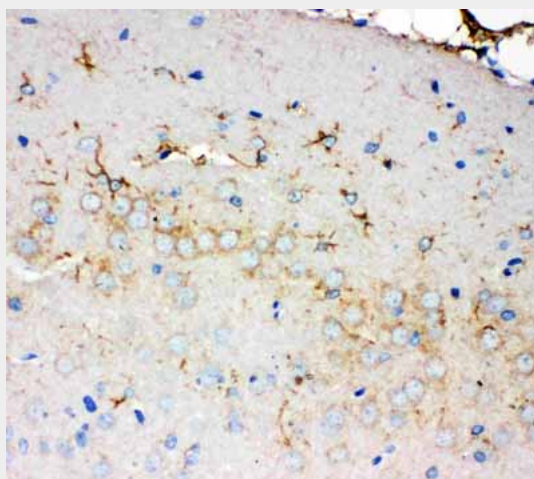
**Anti-PMP70 Antibody - Images**



Anti-PMP70 antibody, ABO11398, Western blotting Lane 1: Rat Lung Tissue Lysate Lane 2: Rat Ovary Tissue Lysate



Anti-PMP70 antibody, ABO11398, IHC(P) IHC(P): Human Lung Cancer Tissue



Anti-PMP70 antibody, ABO11398, IHC(P) IHC(P): Rat Brain Tissue

### Anti-PMP70 Antibody - Background

ATP-binding cassette sub-family D member 3 is a protein that in humans is encoded by the ABCD3 gene. The protein encoded by this gene is a member of the superfamily of ATP-binding cassette(ABC) transporters. The gene was assigned to human chromosome 1p21-p22 by in situ

hybridization. This peroxisomal membrane protein likely plays an important role in peroxisome biogenesis. Mutations have been associated with some forms of Zellweger syndrome, a heterogeneous group of peroxisome assembly disorders.