# PMP70 Rabbit mAb

**Catalog No.: A29548**

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## Basic Information

**Observed MW**
70 kDa

**Calculated MW**
27 kDa/62 kDa/75 kDa

**Category**
Monoclonal Antibodies

**Applications**
WB, IP, IF/ICC, IF-F, ELISA

**Cross Reactivity**
Human, Mouse

**Clone No.**
ARC4166

## Background

The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the ALD subfamily, which is involved in peroxisomal import of fatty acids and/or fatty acyl-CoAs in the organelle. All known peroxisomal ABC transporters are half transporters which require a partner half transporter molecule to form a functional homodimeric or heterodimeric transporter. 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. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

## Recommended Dilutions

| | |
|---|---|
| **WB** | 1:4000 - 1:30000 |
| **IP** | 0.5 μg - 4 μg antibody for 200 μg - 400 μg extracts of whole cells |
| **IF/ICC** | 1:200 - 1:2000 |
| **IF-F** | 1:2000 - 1:4000 |
| **ELISA** | Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000), a sequential dilution method is strongly recommended to ensure measurement accuracy. |

## Immunogen Information

**Gene ID**
5825

**Swiss-Prot**
P28288

**Immunogen**
This information is considered to be commercially sensitive.

**Synonyms**
ZWS2; ABC43; CBAS5; OPDM5; PMP70; PXMP1


## Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn


## Product Information

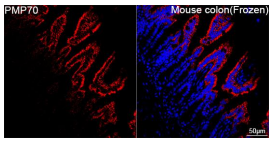
**Source**
Rabbit

**Isotype**
IgG

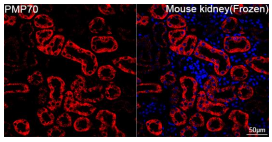
**Purity**
Affinity purification

**Storage**
Store at -20℃

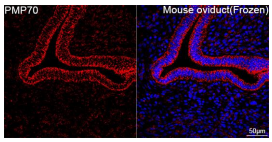
## Validation Data



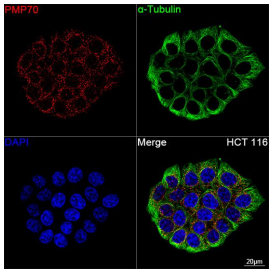

Confocal imaging of frozen sections of Mouse colon tissue using PMP70 Rabbit mAb (A29548, dilution 1:2000) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



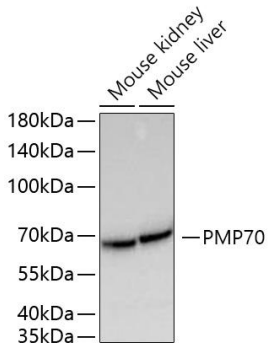

Confocal imaging of frozen sections of Mouse kidney tissue using PMP70 Rabbit mAb (A29548, dilution 1:2000) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



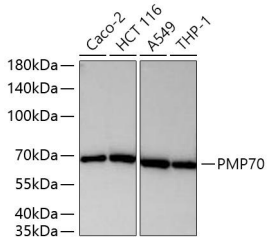

Confocal imaging of frozen sections of Mouse oviduct tissue using PMP70 Rabbit mAb (A29548, dilution 1:2000) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



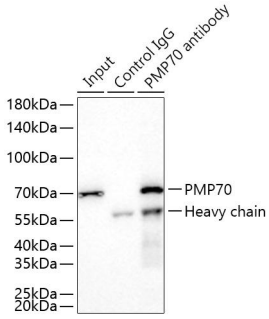

Confocal imaging of HCT 116 cells using PMP70 Rabbit mAb (A29548, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS037, dilution 1:800) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.




Western blot analysis of various lysates using PMP70 Rabbit mAb (A29548) at 1: 10000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1 s.




Western blot analysis of various lysates using PMP70 Rabbit mAb (A29548) at 1: 10000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.




Immunoprecipitation of PMP70 from 200 µg extracts of HCT 116 cells was performed using 2 µg of PMP70 Rabbit mAb (A29548). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using PMP70 Rabbit mAb (A29548) at a dilution of 1:10000.