

# Recombinant Anti-ABCD3 Rabbit mAb

Catalog # AP95256

## Product Information

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|-------------------|------------------------|
| Application       | WB, FC, IF/IC          |
| Primary Accession | <a href="#">P28288</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Monoclonal             |
| Calculated MW     | 75476                  |

## Additional Information

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|--------------------|-------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 5825                                                                                                                    |
| Other Names        | PMP70; PXMP1; ATP-binding cassette sub-family D member 3; 70 kDa peroxisomal membrane protein; PMP70                    |
| Target/Specificity | KLH-conjugated synthetic peptide encompassing a sequence within human ABCD3 protein. The exact sequence is proprietary. |
| Dilution           | WB~~WB (1/500 - 1/1000) FC~~1:10~50 IF/IC~~N/A                                                                          |
| Format             | Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.                                                   |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt                                                               |

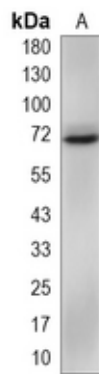
## Protein Information

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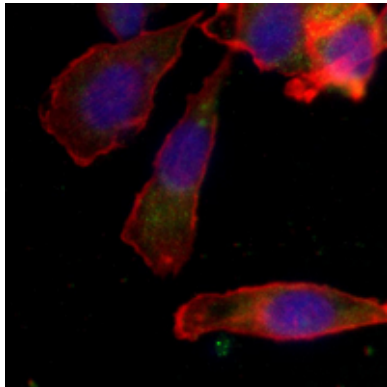
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| Name              | ABCD3 ( <a href="#">HGNC:67</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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-oxydation (PubMed: <a href="#">11248239</a> , PubMed: <a href="#">24333844</a> , PubMed: <a href="#">25168382</a> , PubMed: <a href="#">29397936</a> ). Has fatty acyl-CoA thioesterase and ATPase activities (PubMed: <a href="#">29397936</a> ). 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: <a href="#">24333844</a> , PubMed: <a href="#">25944712</a> ). |
| Cellular Location | Peroxisome membrane; Multi-pass membrane protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Images

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Western blot analysis of ABCD3 expression in HepG2 (A) whole cell lysates. (Predicted band size: 75 kD; Observed band size: 70 kD)



Immunofluorescent analysis of ABCD3 staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.