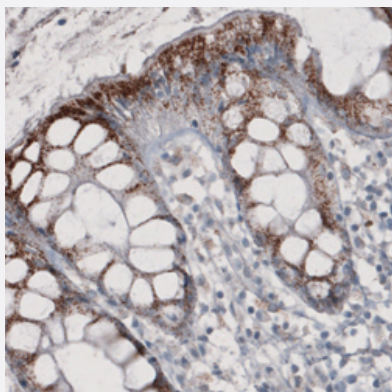


# ABCD3 monoclonal antibody, clone CL2524

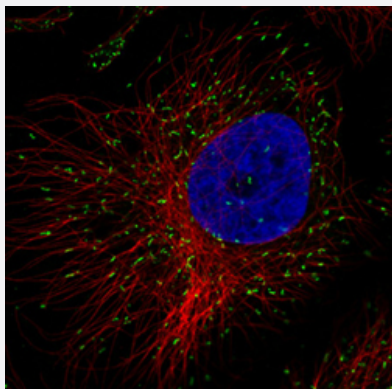
Catalog # MAB15753      Size 100 uL

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human rectum with ABCD3 monoclonal antibody, clone CL2524 (Cat # MAB15753) shows strong granular cytoplasmic immunoreactivity in glandular cells.



### Immunofluorescence

Immunofluorescent staining of HeLa cells with ABCD3 monoclonal antibody, clone CL2524 (Cat # MAB15753) (Green) shows specific peroxisomes. Microtubule and nuclear probes are visualized in red and blue respectively (where available).

## Specification

|                     |                                                                                                                                        |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Product Description | Mouse monoclonal antibody raised against partial recombinant human ABCD3.                                                              |
| Immunogen           | Recombinant protein corresponding to human ABCD3.                                                                                      |
| Epitope             | This antibody binds to an epitope located within the peptide sequence GVQVIPLIPGAGEII as determined by overlapping synthetic peptides. |
| Sequence            | MVSQQEKGIEGVQVIPLIPGAGEIIADNIIKFDHVPLATPNGDVLIRDLNFEVRSGANVLICGP                                                                       |
| Host                | Mouse                                                                                                                                  |

|                     |                                                                                                                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity          | Human                                                                                                                                                                                      |
| Form                | Liquid                                                                                                                                                                                     |
| Purification        | Protein A purification                                                                                                                                                                     |
| Isotype             | IgG1                                                                                                                                                                                       |
| Recommend Usage     | Immunofluorescence (1-4 ug/mL)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:200-1:500)<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer      | In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).                                                                                                                                         |
| Storage Instruction | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                     |
| Note                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                     |

## Applications

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## Gene Info — ABCD3

|                    |                                                    |
|--------------------|----------------------------------------------------|
| Entrez GeneID      | <a href="#">5825</a>                               |
| Protein Accession# | <a href="#">P28288</a>                             |
| Gene Name          | ABCD3                                              |
| Gene Alias         | ABC43, PMP70, PXMP1                                |
| Gene Description   | ATP-binding cassette, sub-family D (ALD), member 3 |
| Omim ID            | <a href="#">170995</a>                             |
| Gene Ontology      | <a href="#">Hyperlink</a>                          |

**Gene Summary**

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. [provided by RefSeq]

**Other Designations**

ATP-binding cassette, sub-family D, member 3|OTTHUMP00000012428|Peroxisomal membrane protein-1 (70kD)|dJ824O18.1 (ATP-binding cassette, sub-family D (ALD), member 3 (PMP70, P XMP1))|peroxisomal membrane protein 1 (70kD, Zellweger syndrome)

**Pathway**

- [ABC transporters](#)

**Disease**

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Tobacco Use Disorder](#)