

ABCD3 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50722**Specification**

ABCD3 Antibody - Product Information

Application	WB
Primary Accession	P28288
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	75,63,27 KDa
Antigen Region	30-90

ABCD3 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

Dilution

WB~~ 1:1000

Storage

Store at -20 °C. Stable for 12 months from date of receipt

ABCD3 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-oxydation (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

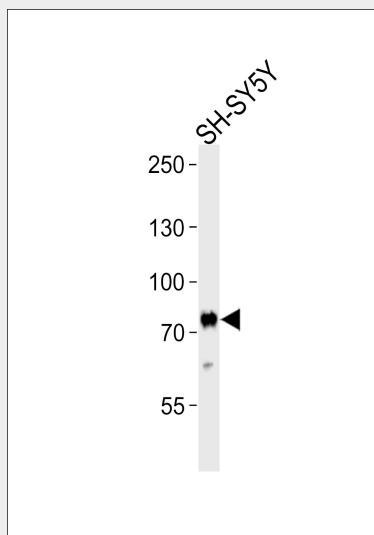
Peroxisome membrane; Multi-pass membrane protein

ABCD3 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](#)

ABCD3 Antibody - Images



Western blot analysis of lysate from SH-SY5Y cell line, using ABCD3 Antibody was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

ABCD3 Antibody - Background

Probable transporter. The nucleotide-binding fold acts as an ATP-binding subunit with ATPase activity.

ABCD3 Antibody - References

- Gaertner J., et al. Nat. Genet. 1:16-23(1992).
Kamijo K., et al. Biochim. Biophys. Acta 1129:323-327(1992).
Gaertner J., et al. Genomics 48:203-208(1998).
Kalnina N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Gregory S.G., et al. Nature 441:315-321(2006).