

ABCD3 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP50722

Product Information

Application	WB
Primary Accession	P28288
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	75476

Additional Information

Gene ID	5825
Other Names	ATP-binding cassette sub-family D member 3, 70 kDa peroxisomal membrane protein, PMP70, ABCD3, PMP70, PXMP1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human ABCD3. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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 , PubMed: 24333844 , PubMed: 25168382 , PubMed: 29397936). Has fatty acyl-CoA thioesterase and ATPase activities (PubMed: 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 , PubMed: 25944712).
Cellular Location	Peroxisome membrane; Multi-pass membrane protein

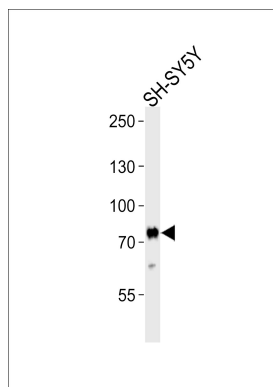
Background

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

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).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Gregory S.G.,et al.Nature 441:315-321(2006).

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.

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