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Anti-ABCD3 Antibody

Catalog # AP50722

Product Information

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

Additional Information

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 the N-term region of human ABCD3. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

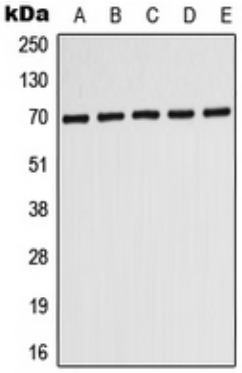
Protein Information

Name	ABCD3 {ECO:0000303|PubMed:39223112, ECO:0000312|HGNC:HGNC:67}
Function	ATP-dependent transporter of the ATP-binding cassette (ABC) family that catalyzes the transport of long- and very-long-chain fatty acyl-CoAs and probably bile acyl-CoAs from the cytosol to the peroxisome matrix for beta-oxydation. Appears to be specifically involved in the peroxisomal transport of branched-chain fatty acyl-CoAs (BCFA-CoAs) and dicarboxylic acyl CoAs (DCA-CoAs) (PubMed:11248239, PubMed:23671276, PubMed:24333844, PubMed:25168382, PubMed:29397936, PubMed:39223112, PubMed:41428872). Has fatty acyl-CoA thioesterase and ATPase activities. Probably hydrolyzes fatty acyl-CoAs into free fatty acids prior to their ATP-dependent transport into peroxisomes.
Cellular Location	Peroxisome membrane; Multi-pass membrane protein

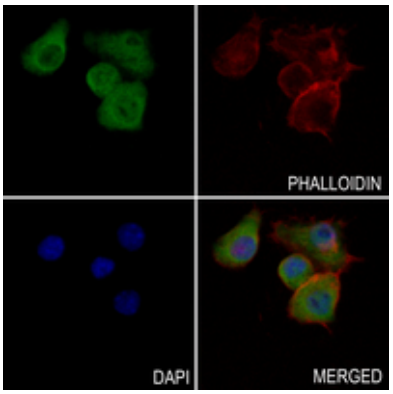
References

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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 ABCD3 expression in HepG2 (A), MCF7 (B), SHSY5Y (C), SP2/0 (D), PC12 (E) whole cell lysates. (Predicted band size: 75 kD; Observed band size: 75 kD)



Immunofluorescent analysis of ABCD3 staining in RAW264.7 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 hidified chamber. Cells were washed with PBST and incubated with a 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).

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