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Recombinant Anti-ABCD3 Rabbit mAb

Catalog # AP95256

Product Information

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

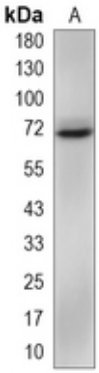
Additional Information

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 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

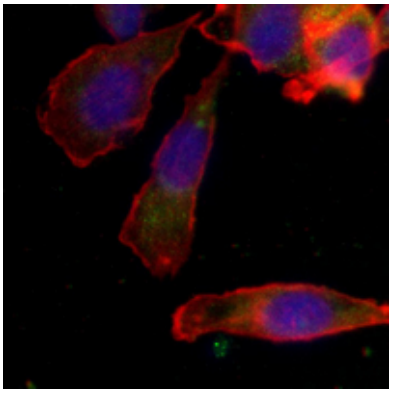
Protein Information

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

Images



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 hidified 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'.