

For Research Use Only

# ABCD1 Recombinant antibody

Catalog Number: 83038-4-RR

Featured Product



## Basic Information

Catalog Number:

83038-4-RR

Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0453

GenBank Accession Number:

BC025358

GeneID (NCBI):

215

UNIPROT ID:

P33897

Full Name:

ATP-binding cassette, sub-family D (ALD), member 1

Calculated MW:

745 aa, 83 kDa

Observed MW:

75 kDa

Purification Method:

Protein A purification

CloneNo.:

230226E12

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:50-1:500

## Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Species Specificity:

human, mouse

Positive Controls:

WB : HeLa cells, HepG2 cells, JAR cells, mouse liver tissue

IF/ICC : HeLa cells,

## Background Information

ABCD1 (also known as ALDP) is a member of the ATP-binding cassette (ABC) transporter superfamily which functions as transporter for a wide variety of substrates. It localizes to the peroxisomal membrane. The exact function is not clear so far. Various mutations of ABCD1 cause X-linked adrenoleukodystrophy (X-ALD), an inherited neurodegenerative disease affecting the nervous system white matter and adrenal cortex.

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

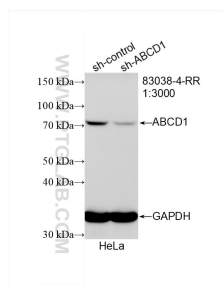
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

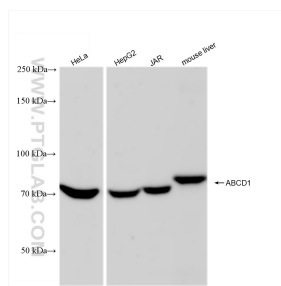
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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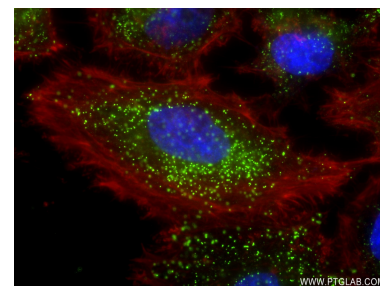
## Selected Validation Data



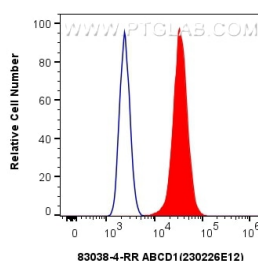
WB result of ABCD1 antibody (83038-4-RR; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ABCD1 transfected HeLa cells.



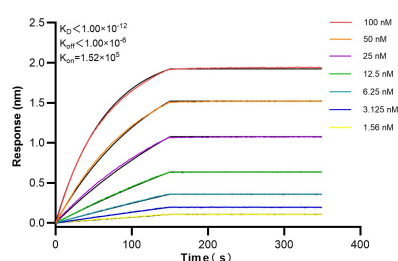
Various lysates were subjected to SDS PAGE followed by western blot with 83038-4-RR (ABCD1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ABCD1 antibody (83038-4-RR, Clone: 230226E12) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.25  $\mu$ g ABCD1 Recombinant antibody (83038-4-RR, Clone:230226E12) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25  $\mu$ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83038-4-RR against Human ABCD1 were performed. The affinity constant is below 1 pM.