For Research Use Only

ABCD1 Polyclonal antibody

Catalog Number:11159-1-AP 2 Publications

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Basic Information

Catalog Number:
11159-1-AP

Size:
150ul , Concentration: 350 μg/ml by Nanodrop and 133 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1635

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:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200
IF 1:20-1:200

Applications

Tested Applications:
WB, IP, IF, IHC, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human brain tissue, HeLa cells, mouse liver tissue

IP : mouse liver tissue,

IHC : human lung cancer tissue,

IF : 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Isabel Valença	33121137	Cancers (Basel)	WB
Yejin Yao	38062668	J Biomed Res	IF

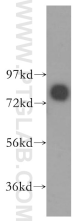
Storage

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

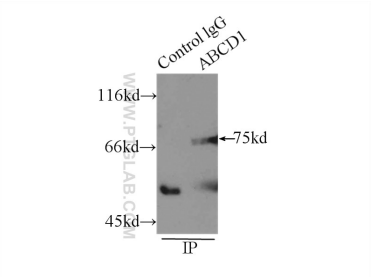
*** 20ul sizes contain 0.1% BSA

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
W: ptglab.com

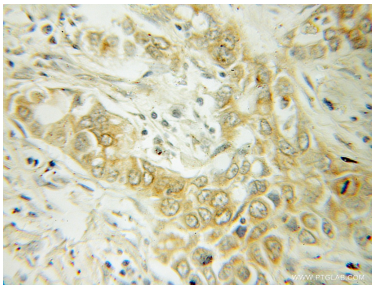
Selected Validation Data



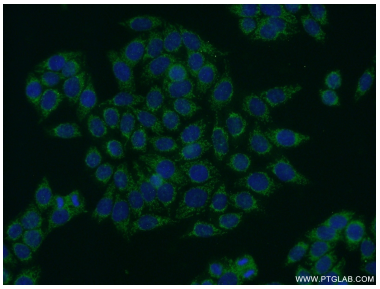
human brain tissue were subjected to SDS PAGE followed by western blot with 11159-1-AP (ABCD1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



IP result of anti-ABCD1 (IP:11159-1-AP, 4ug; Detection:11159-1-AP 1:500) with mouse liver tissue lysate 5000ug.



Immunohistochemical analysis of paraffin-embedded human lung cancer using 11159-1-AP (ABCD1 antibody) at dilution of 1:50 (under 10x lens).



Immunofluorescent analysis of HeLa cells using 11159-1-AP (ABCD1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).