

ABCD2 (aa460-473) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3763a

Specification

ABCD2 (aa460-473) Antibody (internal region) - Product Information

Application	WB, E
Primary Accession	O9UBJ2
Other Accession	NP_005155.1 , 225
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	83233

ABCD2 (aa460-473) Antibody (internal region) - Additional Information

Gene ID 225

Other Names

ATP-binding cassette sub-family D member 2, Adrenoleukodystrophy-like 1, Adrenoleukodystrophy-related protein, hALDR, ABCD2, ALD1, ALDL1, ALDR, ALDRP

Dilution

WB~~1:1000
E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ABCD2 (aa460-473) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

ABCD2 (aa460-473) Antibody (internal region) - Protein Information

Name ABCD2 ([HGNC:66](#))

Function

ATP-dependent transporter of the ATP-binding cassette (ABC) family involved in the transport of very long chain fatty acid (VLCFA)- CoA from the cytosol to the peroxisome lumen (PubMed:21145416, PubMed:21145416).

<http://www.uniprot.org/citations/29397936>). Like ABCD1 seems to have fatty acyl-CoA thioesterase (ACOT) and ATPase activities, according to this model, VLCFA-CoA as free VLCFA is transported in an ATP-dependent manner into peroxisomes after the hydrolysis of VLCFA-CoA mediated by the ACOT activity of ABCD2 (Probable) (PubMed:<http://www.uniprot.org/citations/29397936>). Shows overlapping substrate specificities with ABCD1 toward saturated fatty acids (FA) and monounsaturated FA (MUFA) but has a distinct substrate preference for shorter VLCFA (C22:0) and polyunsaturated fatty acid (PUFA) such as C22:6-CoA and C24:6-CoA (in vitro) (PubMed:<http://www.uniprot.org/citations/21145416>). Thus, may play a role in regulation of VLCFAs and energy metabolism namely, in the degradation and biosynthesis of fatty acids by beta-oxidation (PubMed:<http://www.uniprot.org/citations/21145416>).

Cellular Location

Peroxisome membrane; Multi-pass membrane protein

Tissue Location

Predominantly expressed in brain and heart.

ABCD2 (aa460-473) Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ABCD2 (aa460-473) Antibody (internal region) - Images



AF3763a (1 µg/ml) staining of Human Liver lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

ABCD2 (aa460-473) Antibody (internal region) - Background

No cross-reactivity expected with ABCD1.

ABCD2 (aa460-473) Antibody (internal region) - References

Differential substrate specificities of human ABCD1 and ABCD2 in peroxisomal fatty acid β -oxidation. van Roermund CW, Visser WF, Ijlst L, Waterham HR, Wanders RJ. *Biochim Biophys Acta*. 2011 Mar;1811(3):148-52. PMID: 21145416