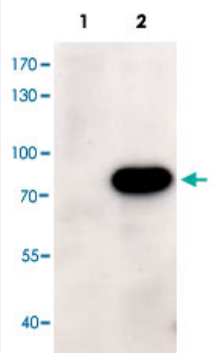
ABCD1 polyclonal antibody

Catalog # PAB7486 Size 100 ug

Applications



Western Blot (Transfected lysate)

HEK293 overexpressing human ABCD1 and probed with ABCD1 polyclonal antibody (Cat # PAB7486) at 1ug/ml (mock transfection in first lane).

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of ABCD1.
Immunogen	A synthetic peptide corresponding to human ABCD1.
Sequence	C-EDMQRKGYSEQD
Host	Goat
Theoretical MW (kDa)	82.9
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.

Recommend Usage	ELISA (1:32000) Western Blot (1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Transfected lysate)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — ABCD1

Entrez GeneID	215
Protein Accession#	NP_000024.2
Gene Name	ABCD1
Gene Alias	ABC42, ALD, ALDP, AMN
Gene Description	ATP-binding cassette, sub-family D (ALD), member 1
Omim ID	300100 300371
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membrane s. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the ALD subfamily, which is involved in peroxisomal i mport of fatty acids and/or fatty acyl-CoAs in the organelle. All known peroxisomal ABC transporte rs are half transporters which require a partner half transporter molecule to form a functional homo dimeric or heterodimeric transporter. This peroxisomal membrane protein is likely involved in the peroxisomal transport or catabolism of very long chain fatty acids. Defects in this gene have been identified as the underlying cause of adrenoleukodystrophy, an X-chromosome recessively inherit ed demyelinating disorder of the nervous system. [provided by RefSeq

Other Designations	OTTHUMP00000025960|adrenoleukodystrophy protein

Publication Reference

- Distribution and cellular localization of adrenoleukodystrophy protein in human tissues: implications for X-linked adrenoleukodystrophy.

  Hoftberger R, Kunze M, Weinhofer I, Aboul-Enein F, Voigtlander T, Oezen I, Amann G, Bernheimer H, Budka H, Berger J.

  Neurobiology of Disease 2007 Nov; 28(2):165.

  Application: IF, IHC-P, WB, Human, Human pituitary glands

Pathway

- ABC transporters

Disease

- Adrenoleukodystrophy
- Alzheimer disease
- Cerebral Amyloid Angiopathy
- Genetic Predisposition to Disease
- Neuroblastoma