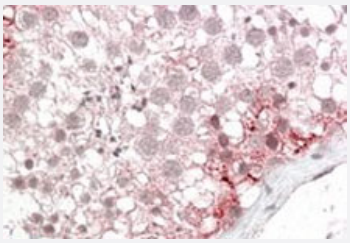
ABCD3 polyclonal antibody

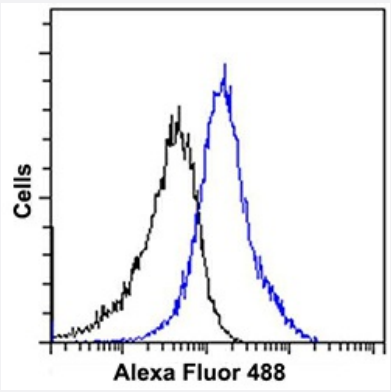
Catalog # PAB11481 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

ABCD3 polyclonal antibody (Cat # PAB11481) (3.8 ug/mL) staining of paraffin embedded human testis. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Flow Cytometry

ABCD3 polyclonal antibody (Cat # PAB11481) Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (1 ug/mL). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of ABCD3.
Immunogen	A synthetic peptide corresponding to internal region of human ABCD3.
Sequence	C-PDGREDQKRKGISD
Host	Goat
Theoretical MW (kDa)	75.5
Reactivity	Human

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Specificity	This antibody is expected to recognize one isoform (NP_002849.1) only.
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Recommend Usage	ELISA (1:16000) Flow Cytometry (10 ug/mL) Immunohistochemistry (2.5-3.8 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

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — ABCD3

Entrez GeneID	5825
Protein Accession#	NP_002849.1
Gene Name	ABCD3
Gene Alias	ABC43, PMP70, PXMP1
Gene Description	ATP-binding cassette, sub-family D (ALD), member 3

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Omim ID	170995
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 likely plays an importan t role in peroxisome biogenesis. Mutations have been associated with some forms of Zellweger s yndrome, a heterogeneous group of peroxisome assembly disorders. Alternative splicing results i n multiple transcript variants encoding distinct isoforms. [provided by RefSeq
Other Designations	ATP-binding cassette, sub-family D, member 3|OTTHUMP00000012428|Peroxisomal membrane protein-1 (70kD)|dJ824O18.1 (ATP-binding cassette, sub-family D (ALD), member 3 (PMP70, P XMP1))|peroxisomal membrane protein 1 (70kD, Zellweger syndrome)

Publication Reference

- Homo- and heterodimerization of peroxisomal ATP-binding cassette half-transporters.

  Liu LX, Janvier K, Berteaux-Lecellier V, Cartier N, Benarous R, Aubourg P.

  The Journal of Biological Chemistry 1999 Nov; 274(46):32738.

  Application: WB-Tr, Mouse, NIH/3T3 cells

Pathway

- ABC transporters

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Tobacco Use Disorder

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