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Datasheet for ABIN950202 anti-ABCD1 antibody (Middle Region)

3 Images



Overview

Quantity:	0.4 mL
Target:	ABCD1
Binding Specificity:	AA 264-293, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ABCD1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 264-293 amino acids from the Central region of human ABCD1.
lsotype:	Ig Fraction
Specificity:	This antibody reacts to ABCD1.
Cross-Reactivity (Details):	Species reactivity (tested):Human.
Purification:	Affinity chromatography on Protein A
Target Details	

Target:

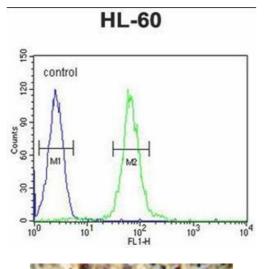
ABCD1

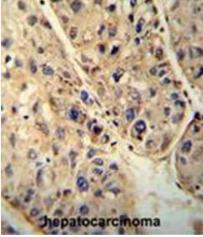
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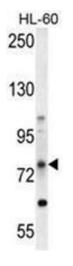
Target Details	
Alternative Name:	ABCD1 / ALDP (ABCD1 Products)
Background:	ABCD1 is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC
	proteins transport various molecules across extra- and intra-cellular membranes. ABC genes
	are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White).
	This protein is a member of the ALD subfamily, which is involved in peroxisomal import of fatty
	acids and/or fatty acyl-CoAs in the organelle. All known peroxisomal ABC transporters are half
	transporters which require a partner half transporter molecule to form a functional
	homodimeric 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 inherited demyelinating disorder of the nervous system.Synonyms:
	ATP-binding cassette sub-family D member 1
Gene ID:	215
NCBI Accession:	NP_000024
Pathways:	Monocarboxylic Acid Catabolic Process
Application Details	
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS containing 0.09 % (W/V) sodium azide as preservative
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

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Flow Cytometry

Image 1. ABCD1 Antibody (Center) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Immunohistochemistry (Paraffin-embedded Sections)

Image 2. ABCD1 antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ABCD1 antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

Western Blotting

Image 3. ABCD1 Antibody (Center) western blot analysis in HL-60 cell line lysates ($35 \mu g$ /lane).This demonstrates the ABCD1 antibody detected the ABCD1 protein (arrow).

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