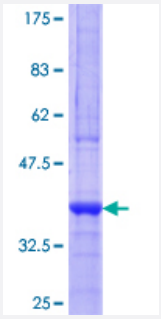
ABCD3 (Human) Recombinant Protein (Q01)

Catalog # H00005825-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ABCD3 partial ORF (NP_002849.1, 351 a.a. - 449 a.a.) recombinant protein with GST-tag a t N-terminal.
Sequence	SELLEDYYQSGRMLLRMSQALGRIVLAGREMTRLAGFTARITELMQVLKDLNHGKYERTMVSQQE KGIEGVQVIPLIPGAGEIIIADNIIKFDHVPLAT
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Interspecies Antigen Sequence	Mouse (93); Rat (95)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

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Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ABCD3

Entrez GeneID	5825
GeneBank Accession#	NM_002858
Protein Accession#	NP_002849.1
Gene Name	ABCD3
Gene Alias	ABC43, PMP70, PXMP1
Gene Description	ATP-binding cassette, sub-family D (ALD), member 3
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)

Pathway

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- ABC transporters

Disease

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

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