



Rabbit Anti-ABCD2 antibody

SL10646R

Product Name:	ABCD2
Chinese Name:	三磷酸腺苷结合盒Transporter2抗体
Alias:	ABC39; Abcd2; ABCD2_HUMAN; Adrenoleukodystrophy-like 1; Adrenoleukodystrophy-related protein; ALDL1; ALDR; ALDRP; ATP-binding cassette sub-family D member 2; hALDR.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	83kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ABCD2:101-200/740
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 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. The function of this peroxisomal membrane protein is unknown; however this protein is speculated to function as a dimerization partner of ABCD1 and/or other peroxisomal ABC transporters. Mutations in this gene have been observed in patients with adrenoleukodystrophy, a severe demyelinating disease. This gene has been identified as a candidate for a modifier gene, accounting for the extreme variation among adrenoleukodystrophy phenotypes. This gene is also a candidate for a complement group of Zellweger syndrome, a genetically heterogeneous disorder of peroxisomal biogenesis. [provided by RefSeq, Jul 2008]

Function:

Probable transporter.

Subunit:

Can form heterodimers with ABCD1/ALD and ABCD3/PMP70. Dimerization is necessary to form an active transporter. Interacts with PEX19.

Subcellular Location:

Peroxisome membrane; Multi-pass membrane protein.

Tissue Specificity:

Predominantly expressed in brain and heart.

Similarity:

Belongs to the ABC transporter superfamily. ABCD family. Peroxisomal fatty acyl CoA transporter (TC 3.A.1.203) subfamily.

Contains 1 ABC transmembrane type-1 domain.

Contains 1 ABC transporter domain.

SWISS:

Q9UBJ2

Gene ID:

225

Database links:

[Entrez Gene: 225](#)Human

[Entrez Gene: 26874](#)Mouse

[Entrez Gene: 84356](#)Rat

[Omim: 601081](#)Human

[SwissProt: Q9UBJ2](#)Human

[SwissProt: Q61285](#)Mouse

[SwissProt: Q9QY44](#)Rat

[Unigene: 117852](#)Human

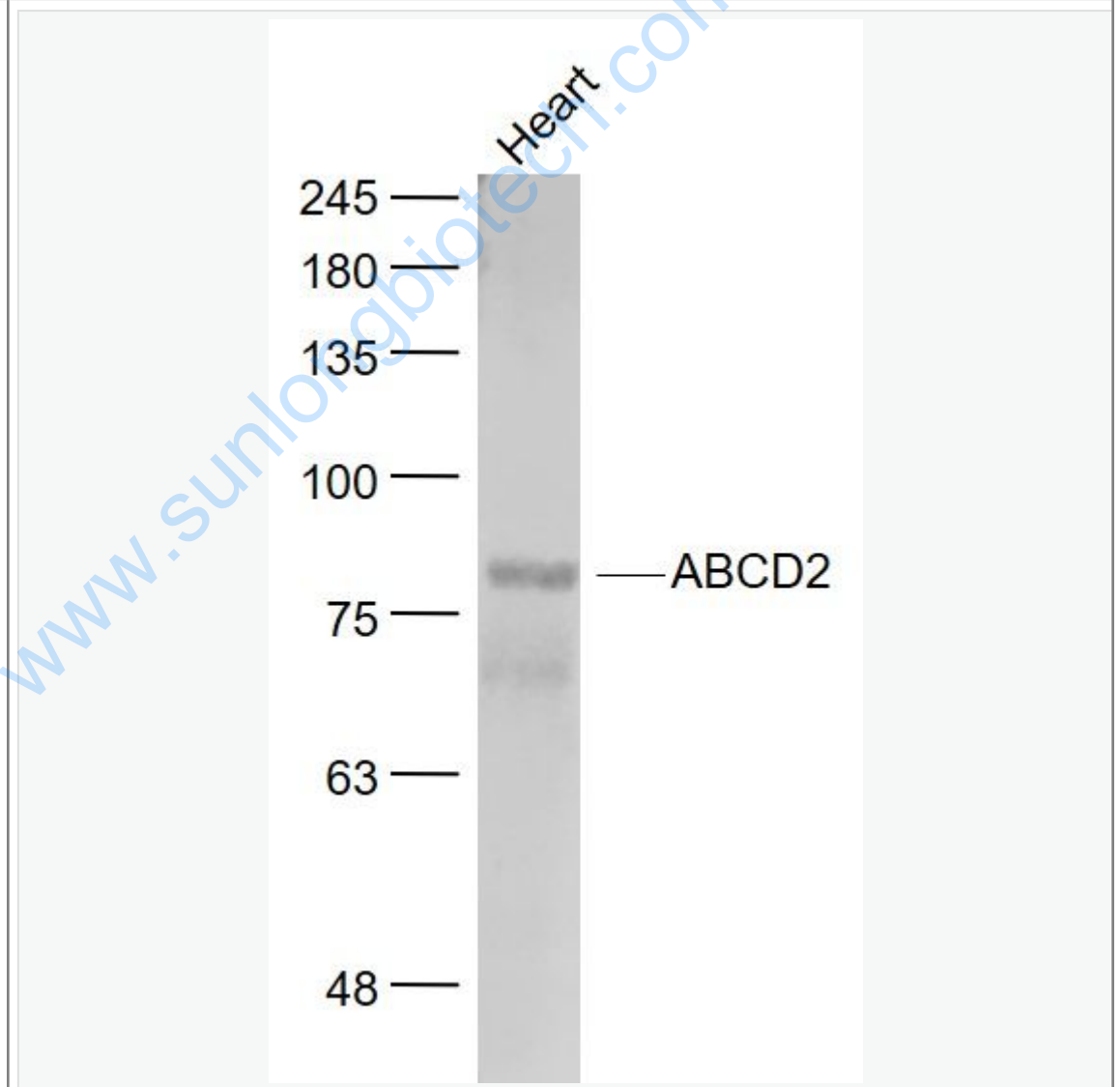
[Unigene: 295456](#)Mouse

[Unigene: 19678](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

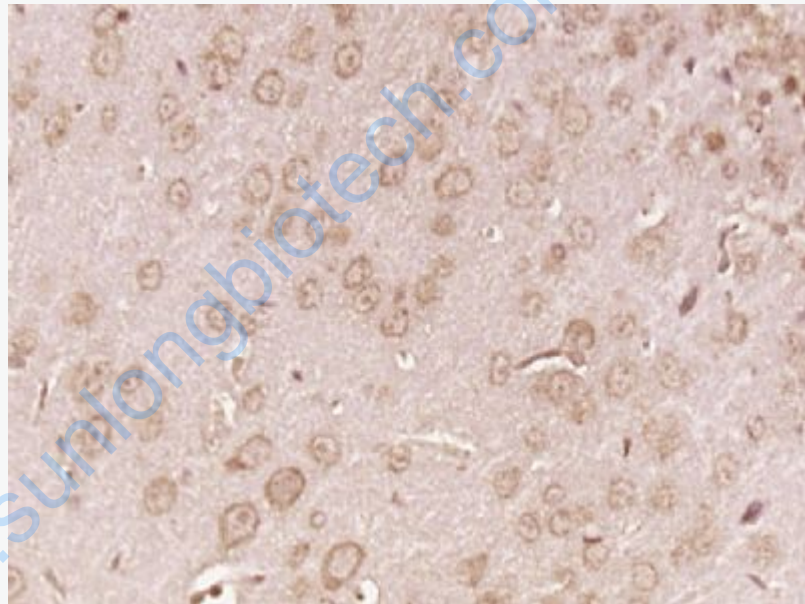
Heart (Mouse) Lysate at 40 ug

Primary: Anti- ABCD2 (SL10646R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 83 kD

Observed band size: 83 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ABCD2) Polyclonal Antibody, Unconjugated (SL10646R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.