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**[ Primary Antibody ]**

# Rabbit Anti-ABCD2 antibody

**Catalog Number: SL10646R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | ABCD2 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human ABCD2: 101-200/740 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | WB=1:500-2000<br>IHC-P=1:100-500<br>IHC-F=1:100-500<br>IF=1:100-500 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Mouse, (predicted: Human, Rat, Dog, Pig, Cow, Horse, Sheep) |
| **Predicted MW.:** | 83kDa |
| **Subcellular Location:** | cytoplasmic |
| **Background:** | 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.<br>Mutations in this gene have been observed in patients with |

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| | 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]<br>**Function:** Probable transporter.<br>**Subunit:** Can form heterodimers with ABCD1/ALD and ABCD3/PMP70. Dimerization is necessary to form an active transporter. Interacts with PEX19.<br>**Subcellular Location:** Peroxisome membrane; Multi-pass membrane protein.<br>**Tissue Specificity:** Predominantly expressed in brain and heart.<br>**Similarity:** Belongs to the ABC transporter superfamily. ABCD family. Peroxisomal fatty acyl CoA transporter (TC 3.A.1.203) subfamily.<br>Contains 1 ABC transmembrane type-1 domain.<br>Contains 1 ABC transporter domain.<br>**Database links:**<br>**Entrez Gene:** 225 Human<br>**Entrez Gene:** 26874 Mouse<br>**Entrez Gene:** 84356 Rat<br>Omim: 601081 Human<br>**SwissProt:** Q9UBJ2 Human<br>**SwissProt:** Q61285 Mouse<br>**SwissProt:** Q9QY44 Rat<br>**Unigene:** 117852 Human<br>**Unigene:** 295456 Mouse<br>**Unigene:** 19678 Rat |

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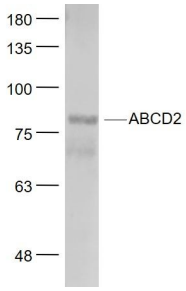
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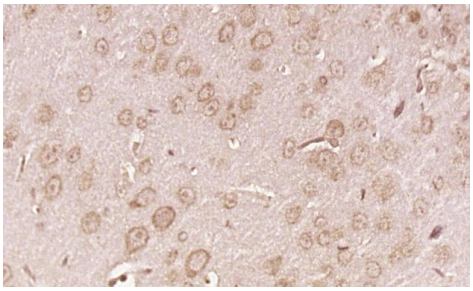
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## [ VALIDATION IMAGES ]



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) instructionsand DAB staining.

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