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# Rabbit Anti-ABCD4 antibody

SL11908R

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| **Product Name:** | ABCD4 |
| **Chinese Name:** | 三磷酸腺苷结合盒Transporter4抗体 |
| **Alias:** | ABC 41; ABC41; ABCD 4; ABCD4; ABCD4_HUMAN; ATP binding cassette sub family D (ALD) member 4; ATP binding cassette sub family D member 4; ATP-binding cassette sub-family D member 4; P70R antibodyP79R; Peroxisomal membrane protein 1 like; Peroxisomal membrane protein 1-like; Peroxisomal membrane protein 69; PMP 69; PMP69; PMP70-related protein; XMP 1L; PXMP1 L; PXMP1-L; PXMP1L. |
| **Organism Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **React Species:** | Human,Mouse,Rat, |
| **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）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Molecular weight:** | 69kDa |
| **Cellular localization:** | cytoplasmicThe cell membrane |
| **Form:** | Lyophilized or Liquid |
| **Concentration:** | 1mg/ml |
| **immunogen:** | KLH conjugated synthetic peptide derived from human ABCD4:351-450/606 |
| **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 peroxisomal membrane contains several ATP-binding cassette (ABC) transporters, ABCD1-4 that are known to be present in the human peroxisome membrane. All four |

proteins are ABC half-transporters, which dimerize to form an active transporter. A mutation in the ABCD1 gene causes X-linked adreno-leukodystrophy (X-ALD), a peroxisomal disorder which affects lipid storage. ABCD2 in mouse is expressed at high levels in the brain and adrenal organs, which are adversely affected in X-ALD. The peroxisomal membrane comprises two quantitatively major proteins, PMP22 and ABCD3. ABCD3 is associated with irregularly shaped vesicles which may be defective peroxisomes or peroxisome precursors. ABCD1 localizes to peroxisomes. ABCB7 is a half-transporter involved in the transport of heme from the mitochondria to the cytosol.

**Subunit:**
Homodimer or heterodimer

**Subcellular Location:**
Peroxisome membrane; Multi-pass membrane protein.

**Tissue Specificity:**
Ubiquitous.

**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:**
O14678

**Gene ID:**
5826

**Database links:**

Entrez Gene: 453032Chimpanzee

Entrez Gene: 490781Dog

Entrez Gene: 5826Human

Entrez Gene: 19300Mouse

Entrez Gene: 299196Rat

GenBank: NM_005050Human

Omim: 603214Human

SwissProt: O14678Human

SwissProt: O89016Mouse

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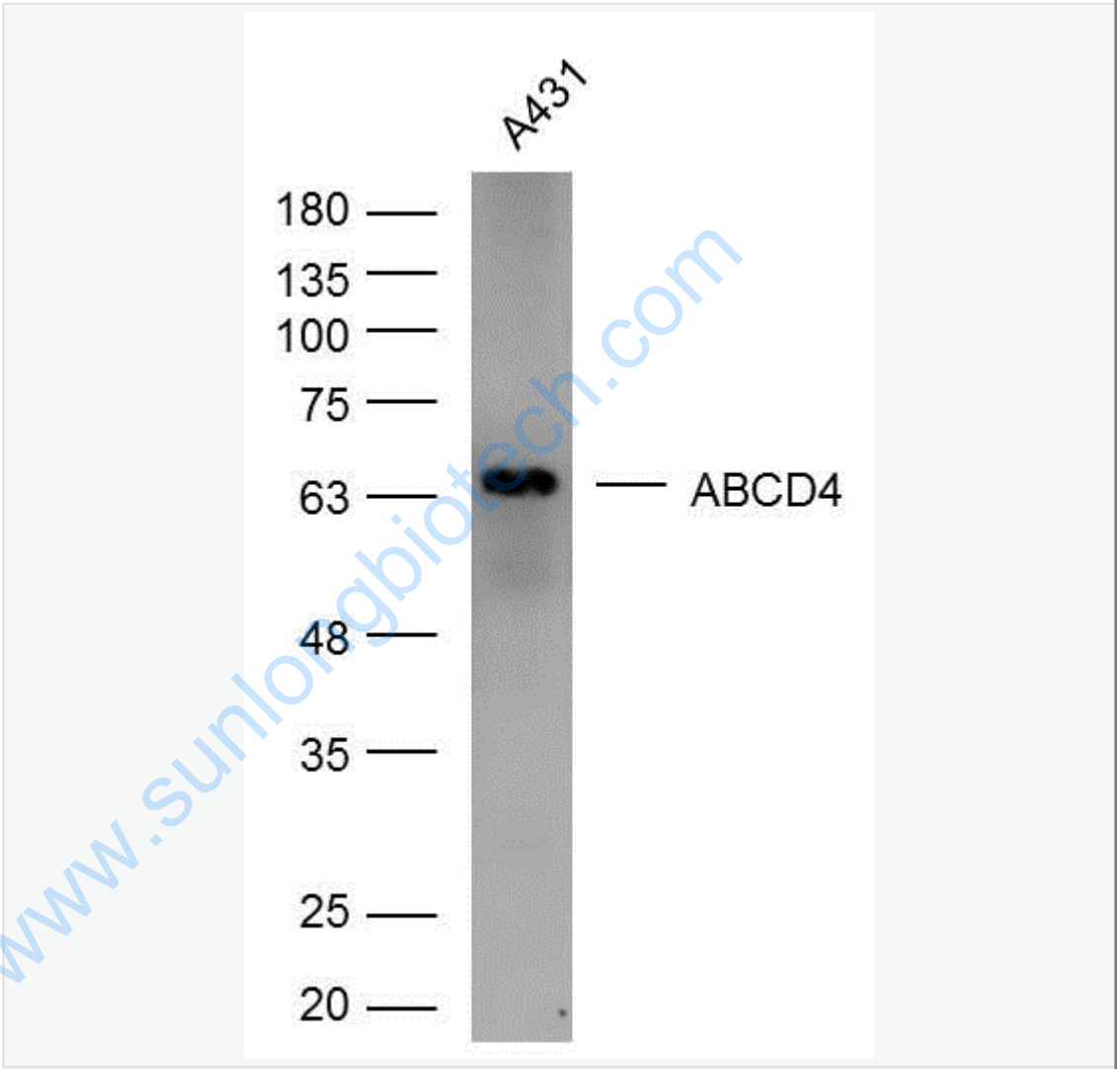
| | **Important Note:**<br>This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Picture:** |  <br>Sample:<br>A431 Cell (Human) Lysate at 30 ug<br>Primary: Anti- ABCD4 (SL11908R) at 1/300 dilution<br>Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution<br>Predicted band size: 69 kD |

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| | Observed band size: 69 kD |