

Rabbit Anti-ABCD4 antibody

SL11908R

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.
Research Area	Cell biology Signal transduction Transporter The cell membrane 蛋白
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human(predicted:Mouse,Rat)
Applications	WB=1:500-2000 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	69kDa
Cellular localization	cytoplasmic The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human ABCD4: 351-450/606
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed

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 adrenoleukodystrophy (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.

Product Detail

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: 453032](#) Chimpanzee

[Entrez Gene: 490781](#) Dog

[Entrez Gene: 5826](#) Human

[Entrez Gene: 19300](#) Mouse

[Entrez Gene: 299196](#) Rat

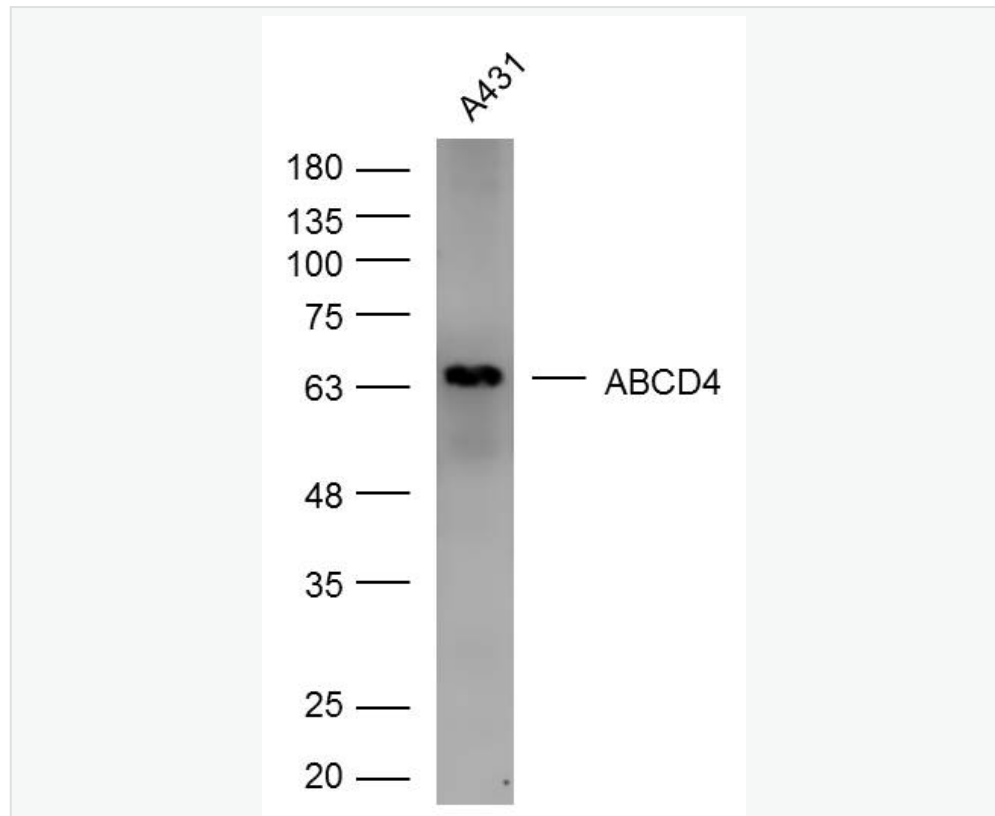
[GenBank: NM_005050](#) Human

[Omim: 603214](#) Human

[SwissProt: O14678](#) Human

[SwissProt: O89016](#) Mouse

Product Picture



Sample:

A431 Cell (Human) Lysate at 30 ug

Primary: Anti- ABCD4 (SL11908R) at 1/300 dilution

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

Predicted band size: 69 kD



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Observed band size: 69 kD