

ABCD4 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50947**Specification**

ABCD4 Antibody - Product Information

Application	WB
Primary Accession	O14678
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	73 KDa
Antigen Region	91 - 150

ABCD4 Antibody - Additional Information**Gene ID** 5826**Other Names**

ATP-binding cassette sub-family D member 4, PMP70-related protein, P70R, Peroxisomal membrane protein 1-like, PXMP1-L, Peroxisomal membrane protein 69, PMP69, ABCD4, PXMP1L

Target/Specificity

KLH conjugated synthetic peptide derived from human ABCD4

Dilution

WB~~ 1:1000

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

ABCD4 Antibody - Protein Information**Name** ABCD4 ([HGNC:68](#))**Synonyms** PXMP1L**Function**

Lysosomal membrane protein that transports cobalamin (Vitamin B12) from the lysosomal lumen to the cytosol in an ATP-dependent manner (PubMed: [22922874](http://www.uniprot.org/citations/22922874), PubMed: [33845046](http://www.uniprot.org/citations/33845046), PubMed: [28572511](http://www.uniprot.org/citations/28572511), PubMed: [31467407](http://www.uniprot.org/citations/31467407)). Targeted by LMBRD1 lysosomal chaperone from the endoplasmic reticulum to the lysosomal membrane

(PubMed:27456980). Then forms a complex with lysosomal chaperone LMBRD1 and cytosolic MMACHC to transport cobalamin across the lysosomal membrane (PubMed:25535791).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Lysosome membrane; Multi-pass membrane protein. Note=Targeted by LMBRD1 lysosomal chaperone to the lysosomal membrane.

Tissue Location

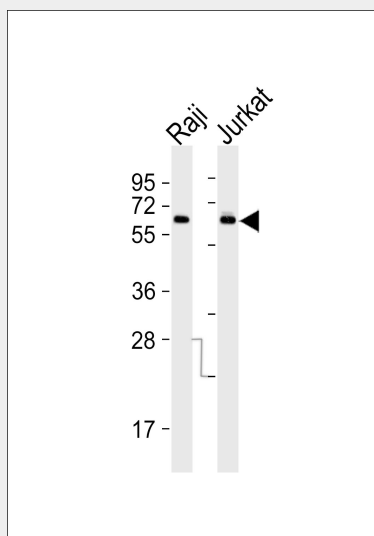
Ubiquitous.

ABCD4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ABCD4 Antibody - Images



All lanes : Anti-ABCD4 Antibody at 1:1000 dilution Lane 1: Raji whole cell lysates Lane 2: Jurkat whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 69 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

ABCD4 Antibody - Background

May be involved in intracellular processing of vitamin B12 (cobalamin). Could play a role in the lysosomal release of vitamin B12 into the cytoplasm.

ABCD4 Antibody - References

Holzinger A.,et al.Biochem. Biophys. Res. Commun. 237:152-157(1997).
Holzinger A.,et al.FEBS Lett. 426:238-242(1998).
Shani N.,et al.Hum. Mol. Genet. 6:1925-1931(1997).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).