

ABCD4 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP50947

Product Information

Application	WB
Primary Accession	O14678
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	68597

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

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 , PubMed: 28572511 , PubMed: 31467407 , PubMed: 33845046). 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.

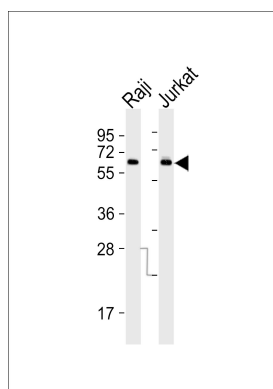
Background

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

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/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.