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ABCD4 Antibody (Internal)

Goat Polyclonal Antibody

Catalog # ALS13358

Specification

ABCD4 Antibody (Internal) - Product Information

Application	**WB**
Primary Accession	O14678
Reactivity	**Human, Mouse, Rat, Rabbit, Monkey**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**69kDa KDa**

ABCD4 Antibody (Internal) - 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
Human ABCD4. Reported variants represent identical protein: NP_064719.1 NP_064731.1 NP_064720.1 NP_064730.1

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
ABCD4 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

ABCD4 Antibody (Internal) - 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:33845046, PubMed:28572511, PubMed: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.

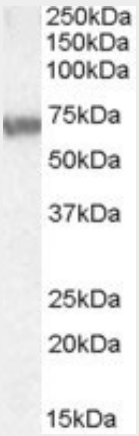
Tissue Location
Ubiquitous.

ABCD4 Antibody (Internal) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ABCD4 Antibody (Internal) - Images



Antibody (0.3 ug/ml) staining of Jurkat lysate (35 ug protein in RIPA buffer).

ABCD4 Antibody (Internal) - 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 (Internal) - 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).