For Research Use Only

VPS41 Polyclonal antibody

Catalog Number:13869-1-AP Featured Product 6 Publications

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Basic Information

Catalog Number:
13869-1-AP

Size:
150ul , Concentration: 450 µg/ml by Nanodrop and 313 µg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG4760

GenBank Accession Number:
BC044851

GeneID (NCBI):
27072

UNIPROT ID:
P49754

Full Name:
vacuolar protein sorting 41 homolog (S. cerevisiae)

Calculated MW:
854 aa, 98 kDa

Observed MW:
94-100 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IHC 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, CoIP

Species Specificity:
human, mouse

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : RAW 264.7 cells, HepG2 cells, human brain tissue

IHC : human liver tissue,

Background Information

Vesicle mediated protein sorting plays an important role in segregation of intracellular molecules into distinct organelles. VPS41 (vacuolar protein sorting 41) is the human ortholog of yeast Vps41 protein. Yeast Vps41 is a subunit of AP3 (heterotetrameric adaptor protein complex 3) and HOPS (homotypic fusion and protein transport) complexes and is involved in trafficking of proteins from the late Golgi to the vacuole. In mammalian cells, Vps41 was found to be a member of HOPS complex, mediating the trafficking of proteins to lysosomes (PMID: 23173123). It has been reported that human VPS41 has a HOPS-independent function in the LAMP carrier pathway and also participates in lysosomal maturation, probably as part of the HOPS complex (PMID: 23322049).

Notable Publications

Author	Pubmed ID	Journal	Application
Magdalena Banach-Orłowska	30333141	J Cell Sci	WB
Rik van der Kant	26463206	J Biol Chem	WB
Guangyan Miao	33422265	Dev Cell	WB,CoIP

Storage

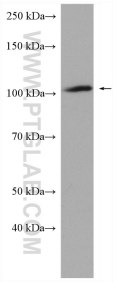
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

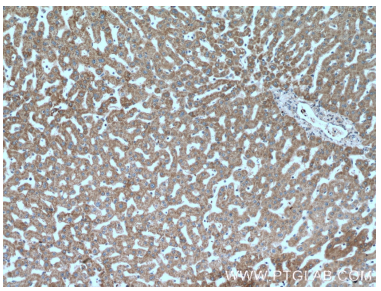
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

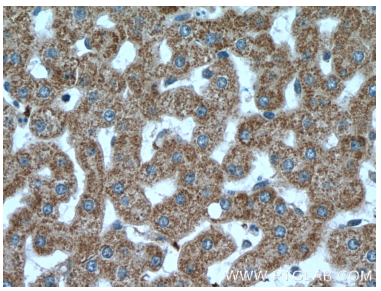
Selected Validation Data



RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 13869-1-AP (VPS41 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 13869-1-AP (VPS41 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 13869-1-AP (VPS41 Antibody) at dilution of 1:200 (under 40x lens).