

VTI1B Polyclonal antibody

Catalog Number: 14495-1-AP

Featured Product

3 Publications

Basic Information

Catalog Number:

14495-1-AP

Size:

550 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5906

GenBank Accession Number:

BC003142

GeneID (NCBI):

10490

UNIPROT ID:

Q9UEUO

Full Name:

vesicle transport through interaction with t-SNAREs homolog 1B (yeast)

Calculated MW:

27 kDa

Observed MW:

29 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

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 : HEK-293 cells, C6 cells, NIH/3T3 cells, human liver tissue, HeLa cells

IP : HeLa cells,

IHC : human liver cancer tissue, human malignant melanoma tissue

Background Information

Fusion between membranes is mediated by specific SNARE (soluble N-ethylmaleimide-sensitive factor attachment protein receptor) complexes. Two human SNARE proteins, VTI1A and VTI1B, are homologous to the yeast Q-SNARE Vti1p which is part of several SNARE complexes in different transport steps (PMID: 12067063). Both proteins had a distinct but overlapping localization. VTI1A is localized predominantly in the TGN, VTI1B in late endosomes (PMID:12067063; 21262811). VTI1B forms a SNARE complex with STX7, STX8 and VAMP8 which functions in the homotypic fusion of late endosomes. It is a component of the SNARE complex composed of STX7, STX8, VAMP7 and VIT1B that is required for heterotypic fusion of late endosomes with lysosomes. It has also been reported that VIT1B interacts with EpsinR, a protein involved in exocytic trafficking (PMID: 15371541).

Notable Publications

Author	Pubmed ID	Journal	Application
Takashi Nozawa	27791468	Autophagy	WB
Amna Music	36111340	Front Cell Dev Biol	IF
Sandhya Ganesan	36728431	mBio	WB

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

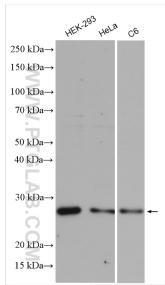
For technical support and original validation data for this product please contact:

T: 4006900926

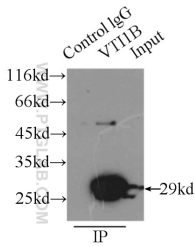
E: Proteintech-CN@ptglab.comW: ptgcn.com

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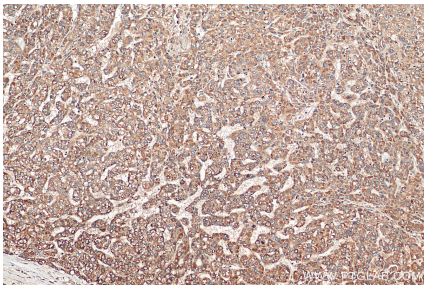
Selected Validation Data



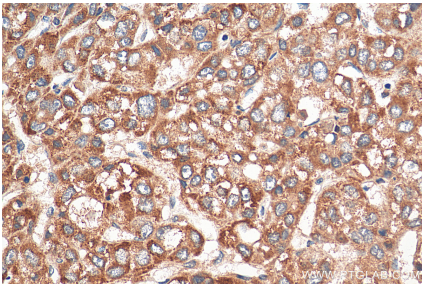
Various lysates were subjected to SDS PAGE followed by western blot with 14495-1-AP (VT11B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-VT11B (IP:14495-1-AP, 3ug; Detection:14495-1-AP 1:1000) with HeLa cells lysate 2500ug.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 14495-1-AP (VT11B antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 14495-1-AP (VT11B antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).