

For Research Use Only

# VTI1B Polyclonal antibody

Catalog Number: 14495-1-AP

Featured Product

3 Publications



## Basic Information

### Catalog Number:

14495-1-AP

### Size:

150ul, Concentration: 550 ug/ml by Nanodrop and 327 ug/ml by Bradford method using BSA as the standard;

### 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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### 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

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

## 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

\*\*\* 20ul sizes contain 0.1% BSA

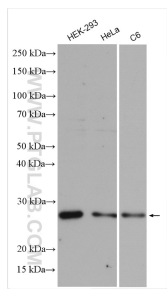
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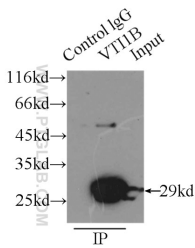
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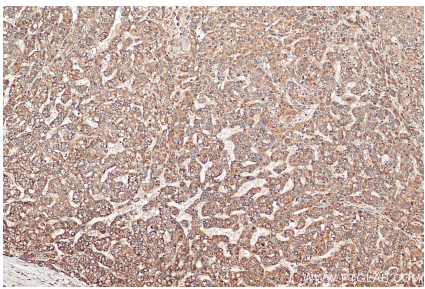
Selected Validation Data



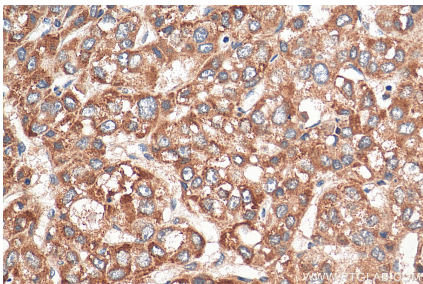
Various lysates were subjected to SDS PAGE followed by western blot with 14495-1-AP (VT1B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-VT1B (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 (VT1B 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 (VT1B antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).