

For Research Use Only

# VTI1B Recombinant monoclonal antibody

Catalog Number: 87150-1-RR



## Basic Information

<b>Catalog Number:</b> 87150-1-RR	<b>GenBank Accession Number:</b> BC003142	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 10490	<b>CloneNo.:</b> 252349D1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9JEU0	<b>Recommended Dilutions:</b> WB: 1:1000-1:4000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
<b>Isotype:</b> IgG	<b>Full Name:</b> vesicle transport through interaction with t-SNAREs homolog 1B (yeast)	
<b>Immunogen Catalog Number:</b> AG5906	<b>Calculated MW:</b> 27 kDa	
	<b>Observed MW:</b> 29 kDa	

## Applications

**Tested Applications:**  
WB, IP, ELISA

**Species Specificity:**  
human, mouse, rat

### Positive Controls:

**WB :** HeLa cells, NIH/3T3 cells, C6 cells, mouse brain tissue, rat brain tissue, mouse liver tissue, rat liver tissue

**IP :** HeLa cells,

## 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).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

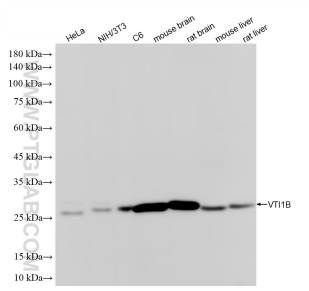
**Aliquoting is unnecessary for -20°C storage**

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

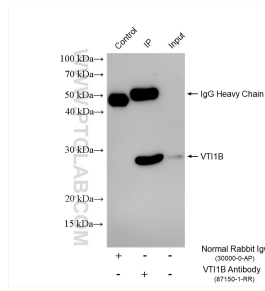
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## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 87150-1-RR (VTI1B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-VTI1B (IP:87150-1-RR, 4ug; Detection:87150-1-RR 1:800) with HeLa cells lysate 1320 ug.