

For Research Use Only

VTI1A Polyclonal antibody

Catalog Number: 12354-1-AP

8 Publications



Basic Information

Catalog Number:

12354-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 280 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3018

GenBank Accession Number:

BC017052

GeneID (NCBI):

143187

UNIPROT ID:

Q96AJ9

Full Name:

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

Calculated MW:

217 aa, 25 kDa

Observed MW:

25-29 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

IF/ICC 1:10-1:100

Applications

Tested Applications:

WB, IF/ICC, IP, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : human brain tissue, human heart tissue, human kidney tissue, human lung tissue, MCF-7 cells, mouse brain tissue

IP : MCF-7 cells,

IF/ICC : NIH/3T3 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). VTI1A is involved in transport between the endosome and the trans-Golgi network. The SNARE complex of STX10, STX16, VTI1A, and VAMP3 is required for MPR (mannose 6-phosphate receptors) transport from endosomes to the Golgi after delivering lysosomal enzymes to the endocytic pathway (PMID: 18195106). Transport from early/recycling endosomes to the TGN is mediated by the SNARE complex of STX6, STX16, VTI1A and VAMP4 (PMID: 11839770; 21807881).

Notable Publications

Author	Pubmed ID	Journal	Application
Yi Huo	27322682	Oncotarget	WB
Laufman Orly O	23865579	Traffic	WB,IF
Hui-Yung Song	30965672	Cells	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

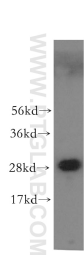
For technical support and original validation data for this product please contact:

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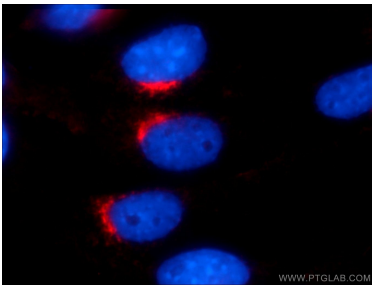
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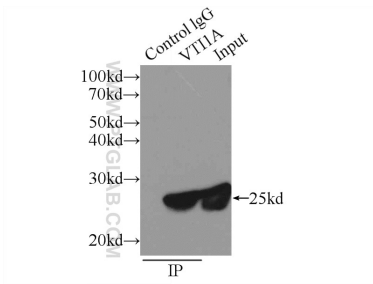
Selected Validation Data



human brain tissue were subjected to SDS PAGE followed by western blot with 12354-1-AP (VTI1A antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of NIH/3T3 cells using 12354-1-AP (VTI1A antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.



IP result of anti-VTI1A (IP:12354-1-AP, 3ug; Detection:12354-1-AP 1:1000) with MCF-7 cells lysate 520ug.