

For Research Use Only

VTI1A Polyclonal antibody

Catalog Number: 12354-1-AP **7 Publications**



Basic Information

| | | |
|--|---|--|
| Catalog Number: 12354-1-AP | GenBank Accession Number: BC017052 | Purification Method: Antigen affinity purification |
| Size: 500 µg/ml | GeneID (NCBI): 143187 | Recommended Dilutions: WB 1:1000-1:4000 |
| Source: Rabbit | UNIPROT ID: Q96AJ9 | IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate |
| Isotype: IgG | Full Name: vesicle transport through interaction with t-SNAREs homolog 1A (yeast) | IF 1:10-1:100 |
| Immunogen Catalog Number: AG3018 | Calculated MW: 217 aa, 25 kDa | |
| | Observed MW: 25-29 kDa | |

Applications

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| Tested Applications: IF/ICC, IP, WB, ELISA | Positive Controls: |
| Cited Applications: IF, WB | WB : human brain tissue, human heart tissue, human kidney tissue, human lung tissue, MCF-7 cells, mouse brain tissue |
| Species Specificity: human, mouse, rat | IP : MCF-7 cells, |
| Cited Species: human, mouse | IF : 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 |

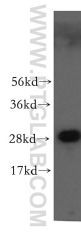
Storage

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

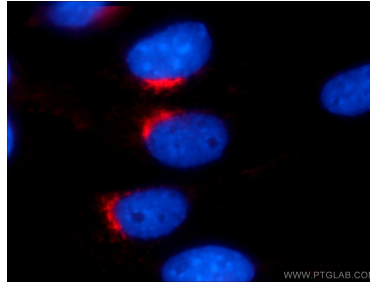
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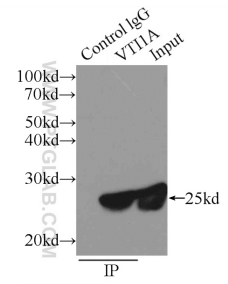
Selected Validation Data



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.