

Vti1b

Cat.No. 164-0P; control protein, 100 µg protein (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg protein, lyophilized. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in TBS. Then aliquot and store at -20°C until use.
Immunogen	Recombinant protein corresponding to AA 1 to 206 from rat Vti1b (UniProt Id: P58200)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	164 002, 164 005
Remarks	This control protein consists of the recombinant protein (aa 1 - 206) that has been used for immunization. It has been tested in preadsorption experiments and blocks efficiently and specifically the corresponding signal in Western blots. The amount of protein needed for efficient blocking depends on the titer and on the affinity of the antibody to the antigen.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Vti1b is a member of the SNARE family of proteins. It predominantly localizes to endosomal membranes, vesicles and tubules of the TGN. Vti1b is involved in the fusion of late endosomes and forms complexes with endobrevin, syntaxin 7 and syntaxin 8.

Selected General References

Syntaxin 6 and Vti1b form a novel SNARE complex, which is up-regulated in activated macrophages to facilitate exocytosis of tumor necrosis Factor-alpha.

Murray RZ, Wylie FG, Khromykh T, Hume DA, Stow JL
The Journal of biological chemistry (2005) 280(11): 10478-83.

EpsinR is an adaptor for the SNARE protein Vti1b.

Hirst J, Miller SE, Taylor MJ, von Mollard GF, Robinson MS
Molecular biology of the cell (2004) 15(12): 5593-602.

Deletion of the SNARE vti1b in mice results in the loss of a single SNARE partner, syntaxin 8.

Atlashkin V, Kreykenbohm V, Eskelinen EL, Wenzel D, Fayyazi A, Fischer von Mollard G
Molecular and cellular biology (2003) 23(15): 5198-207.

The N-terminal domains of syntaxin 7 and vti1b form three-helix bundles that differ in their ability to regulate SNARE complex assembly.

Antonin W, Dulubova I, Arac D, Pabst S, Pnitzner J, Rizo J, Jahn R
The Journal of biological chemistry (2002) 277(39): 36449-56.

The SNAREs vti1a and vti1b have distinct localization and SNARE complex partners.

Kreykenbohm V, Wenzel D, Antonin W, Atlachkine V, von Mollard GF
European journal of cell biology (2002) 81(5): 273-80.