

Anti-VAMP4(Vesicle-associated membrane protein 4) Polyclonal Antibody

Cat. #: 60B782

Description:

The VAMP4 (Vesicle-associated membrane protein 4) is involved in the pathway that functions to remove an inhibitor (probably synaptotagmin IV) of calcium-triggered exocytosis during the maturation of secretory granules. The VAMP4 may be a marker for this sorting pathway that is critical for remodeling the secretory response of granule.

Synaptobrevins/VAMPs, syntaxins, and the 25-kD synaptosomal-associated protein SNAP25 are the main components of a protein complex involved in the docking and/or fusion of synaptic vesicles with the presynaptic membrane. VAMP4 is a member of the vesicle-associated membrane protein (VAMP)/synaptobrevin family. VAMP4 may play a role in trans-Golgi network-to-endosome transport.

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to N-terminal residues of human VAMP4 (Vesicle-associated membrane protein 4)

References

Advani, R.J., et al, J. Biol. Chem. 273 (17), 10317-10324 (1998)
Hinnens, I., et al, EMBO Rep. 4 (12), 1182-1189 (2003)
Zeng, Q., et al, J. Biol. Chem. 278 (25), 23046-23054 (2003)
Mallard, F., et al, J. Cell Biol. 156 (4), 653-664 (2002)
Peden, A.A., et al, J. Biol. Chem. 276 (52), 49183-49187 (2001)
Scales, S.J., et al, Neuron 26 (2), 457-464 (2000)
Steegmaier, M., et al, Mol. Biol. Cell 10 (6), 1957-1972 (1999)
Advani, R.J., et al, J. Biol. Chem. 273 (17), 10317-10324 (1998)

Clone Number:

Isotype:

Species: human, mouse

Storage and Stability: at -20°C

Storage buffer:

This antibody is stored in PBS, 0.01% sodium azide and 50% glycerol.

Preparation:

Purified by antigen-specific affinity chromatography.

Applications :

ELISA

Western Blotting (1 µg/ml for 2 hrs)