AB-PN1001

VAMP1-pS63 Antibody

Phosphosite-specific rabbit polyclonal antibody for VAMP1. This phospho-serine-site antibody also cross-reacts with phosphothreonine and weakly with phosphotyrosine and glutamic acid substitutions in the phosphosite.

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Target Protein

Protein Name Long:	Vesicle-associated membrane protein 1 Synaptobrevin-1
Protein Alias:	SYB1; Synaptobrevin; Synaptobrevin-1; vesicle associated membrane protein
UniProt ID:	P23763
Protein Molecular Mass:	12,902 Da (118 AA; P23763-1); 12,765 Da (117 AA; P23763-3); 12,658 Da (116 AA; P23763-2)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human VAMP1
Antibody Immunogen Sequence:	DQKL(pS)ELD(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues D59 to D66. The effect of S63 phosphorylation is unclear. This is the major *in vivo* site of phosphorylation of VAMP1 based on ≥22 mass spectrometry reports recorded in PhosphoSitePlus.
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipep peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from these animals was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris.
Amount:	25 µg
Antibody Concentration:	0.7 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting | Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human | Chimpanzee | Rhesus Macaque | Dog | Rat | Mouse | Platypus | Chicken | Frog | Zebra fish | Fruit fly | Nematode worm