

AB-PN852

STX1B-pS14 Antibody

Phosphosite-specific rabbit polyclonal antibody for STX1B. This phosphoserine-site antibody also cross-reacts with phosphothreonine substitutions and weakly with weakly with phosphotyrosine and tyrosine substitutions in the phosphosite.

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Target Protein

Protein Name Long:	Syntaxin-1B
Protein Alias:	P35B; ST1B; STX1B1; STX1B2; Syntaxin-1B1; Syntaxin-1B2
UniProt ID:	P61266
Protein Molecular Mass:	33,245 Da (288 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human STX1B
Antibody Immunogen Sequence:	CSAKD(pS)DDE
Antibody Immunogen Description:	Corresponds to amino acid residues S104 to E17. The effect of STX1B S14 phosphorylation is unclear. This is the major site of <i>in vivo</i> phosphorylation of STX1B based on ≥23 mass spectrometry reports recorded in PhosphoSitePlus. STX1B is known to be phosphorylated at this site <i>in vitro</i> by CK2a1 (CSNK2A1).
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 multipеп 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:	1 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 Chicken Frog Zebra fish Fruit fly Honey bee Nematode worm

This product is for *in vitro* research use only and is not intended for use in humans or animals.

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