

AB-PN992

STXBP1-pS313 Antibody

Phosphosite-specific rabbit polyclonal antibody for STXBP1 (HUNC18). This phosphoserine-site antibody is also cross-reactive for a glutamic acid substitution and weakly for phosphothreonine substitution in the

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Target Protein

Protein Name Long:	Syntaxin-binding protein 1
Protein Alias:	HUNC18; Munc18-1; N- Sec1; N-Sec1; P67; RbSec1; STB1; STXB1; Syntaxin binding protein 1; UNC18; Unc-18 homolog; Unc-18-1; UNC18A; Unc-18A
UniProt ID:	P61764
Protein Molecular Mass:	67,569 Da (594 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human STXBP1
Antibody Immunogen Sequence:	C(βA)DFSS(pS)KRM
Antibody Immunogen Description:	Corresponds to amino acid residues D309 to M316. Phosphorylation of S313 inhibits interaction with STX1A and induces exocytosis. This has not been identified as an <i>in vivo</i> phosphorylation site of STX1B based mass spectrometry reports recorded in PhosphoSitePlus. STXBP1 is known to be phosphorylated at this site <i>in vitro</i> by PKCa (PRKCA).
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 multipепptide 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 Rhesus macaque Rat Mouse Platypus 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.

For more information on our products please visit <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987