

# AB-PN993

## STXBP1-pT574 Antibody

Phosphosite-specific rabbit polyclonal antibody for STXBP1 (HUNC18). This phosphotyrosine-site antibody also cross-reacts with a phosphothreonine substitution of the phosphosite.

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### Target Protein

<b>Protein Name Long:</b>	Syntaxin-binding protein 1
<b>Protein Alias:</b>	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
<b>UniProt ID:</b>	P61764
<b>Protein Molecular Mass:</b>	67,569 Da (594 AA)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human STXBP1
<b>Antibody Immunogen Sequence:</b>	CSTHIL(pT)PQK
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues S569 to K577. Phosphorylation of T574 inhibits 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 CDK5, ERK1 (MAPK3), and ERK2 (MAPK1).
<b>Antibody Target Type:</b>	Phosphosite-specific

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Isotype:</b>	IgG
<b>Production Method:</b>	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.
<b>Amount:</b>	25 µg
<b>Antibody Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
<b>Storage Conditions:</b>	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.
<b>Storage Stability:</b>	>2 years

## Applications

<b>Product Use:</b>	Western blotting   Antibody microarray
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human   Chimpanzee   Rhesus macaque   Rat   Mouse   Platypus   Chicken   Frog   Fruit fly   Honey bee   Nematode worm   Sea urchin

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