AB-PP512

PTPN11-pY62 Antibody

Phosphosite-specific rabbit polyclonal antibody for PTPN11 (PTP1D; PTP2C; SHP2; SHPTP2; Syp). This phosphotyrosine-site antibody is highly specific for phosphotyrosine.

Website: www.kinexus.ca
Email: info@kinexus.ca
Phone: 604-323-2547

Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
Canada V6P 6T3

Target Protein

Protein Name Long:	Tyrosine-protein phosphatase non-receptor type 11
Protein Alias:	BPTP3; EC 3.1.3.48; NS1; Protein-tyrosine phosphatase 1D; Protein-tyrosine phosphatase 2C; Protein-tyrosine phosphatase, non-receptor 11; PTN11; PTP1D; PTP-1D; PTP2C; PTP-2C; SHP2; SHPTP2; SH-PTP2; SH-PTP3; Syp
UniProt ID:	Q06124
Protein Molecular Mass:	68,436 Da (597 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PTPN11
Antibody Immunogen Sequence:	TGD(pY)YDL(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues T59 to L65. Y62 phosphorylation stimulates enzymatic activity. This is the major site of *in vivo* phosphorylation of PTPN11 (≥2116 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). This particular human phosphosite is highly conserved in vertebrates and also found in the frog.
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:	0.3 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 | Dog | Rat | Mouse | Chicken | Frog

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