

AB-PP517

PTPN22-pY499 Antibody

Phosphosite-specific rabbit polyclonal antibody for PTPN22. This phosphotyrosine-site antibody also cross-reacts with a phosphoserine substitution of the phosphosite.

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:	Protein-tyrosine phosphatase, non-receptor type 22
Protein Alias:	EC 3.1.3.48; Hematopoietic cell protein-tyrosine phosphatase 70Z-PEP; Lymphoid phosphatase; Lyp; Lyp1; Lyp2; PEP; PTN22; PTPN8
UniProt ID:	Q9Y2R2
Protein Molecular Mass:	91,705 Da (807 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PTPN22
Antibody Immunogen Sequence:	CAELN(pY)SLP
Antibody Immunogen Description:	Corresponds to amino acid residues A495 to P502. The effect of Y499 phosphorylation is unclear. This is the major site of <i>in vivo</i> phosphorylation of PTPN22 (≥59 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). This human phosphosite is conserved in mammals and found in rat. .
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:	0.5 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

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