

AB-PP518

PTPN23-pY1165 Antibody

Phosphosite-specific rabbit polyclonal antibody for PTPN23 (HD-PTP). This phosphotyrosine-site antibody is highly specific for phosphotyrosine.

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Target Protein

Protein Name Long:	Tyrosine-protein phosphatase non-receptor type 23
Protein Alias:	DKFZP564F0923; EC 3.1.3.48; HDPTP; HD-PTP; His-domain protein tyrosine phosphatase; His-domain-containing protein tyrosine phosphatase; KIAA1471; Protein tyrosine phosphatase TD14; Protein tyrosine phosphatase, non-receptor type 23; PTN23; PTP-TD14; Tyrosine-protein phosphatase non-receptor type 23
UniProt ID:	Q9H3S7
Protein Molecular Mass:	178,974 Da (1,636 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PTPN23
Antibody Immunogen Sequence:	RDP(pY)EHP(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues R1162 to P1168. The effect of Y1165 phosphorylation is unclear. This is the major site of <i>in vivo</i> phosphorylation of PTPN23 (≥68 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus).
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:	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 Rhesus macaque 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