

AB-PP500

HePTP-pS44 Antibody

Phosphosite-specific rabbit polyclonal antibody for HePTP (PTPN7)



KINEXUS

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Target Protein

Protein Name Long:	Tyrosine-protein phosphatase non-receptor type 7
Protein Alias:	EC 3.1.3.48; LC-PTP; Protein-tyrosine phosphatase, non-receptor type 7; PTPN7; PTPN7
UniProt ID:	P35236
Protein Molecular Mass:	40,529 AA (360 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human HePTP
Antibody Immunogen Sequence:	RRG(pS)NVA(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues R41 to A47. S44 phosphorylation inhibits interaction with ERK2. This is one of the major <i>in vivo</i> phosphorylation sites in HePTP (≥44 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). This human phosphosite is highly conserved in vertebrates and found in fish. HePTP is known to be phosphorylated at this site <i>in vitro</i> by PKACa (PRKACA), and PKCt (PRKCQ, PKCq).
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:	0.3 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 Platypus Chicken Zebra fish

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