

# AB-PP515

## PTPN2-pS304 Antibody

Phosphosite-specific rabbit polyclonal antibody for PTPN2 (TC-PTP). This phosphoserine-site antibody also cross-reacts with phosphothreonine and serine substitutions in the phosphosite.

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### Target Protein

<b>Protein Name Long:</b>	Tyrosine-protein phosphatase non-receptor type 2; T-cell protein-tyrosine phosphatase
<b>Protein Alias:</b>	EC 3.1.3.48; Protein tyrosine phosphatase, non-receptor type 2; PTN2; PTPT; T-cell protein-tyrosine phosphatase; TCELLPTP; TCPTP; TC-PTP
<b>UniProt ID:</b>	P17706
<b>Protein Molecular Mass:</b>	48,528 Da (415 AA)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human PTPN2
<b>Antibody Immunogen Sequence:</b>	FDH(pS)PNK(βA)C
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues F301 to K307. The effect of S304 phosphorylation is unclear. This is the major site of <i>in vivo</i> phosphorylation of PTPN2 (≥40 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). This human phosphosite is highly conserved in vertebrates and also found in fish. PTPN2 is known to be phosphorylated at this site <i>in vitro</i> by CDK1 (CDC2), and CDK2.
<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 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.
<b>Amount:</b>	25 µg
<b>Antibody Concentration:</b>	0.5 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   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