

# AB-PP514

## PTPN14-pS486 Antibody

Phosphosite-specific rabbit polyclonal antibody for PTPN14. This phosphoserine-site antibody also cross-reacts with phosphothreonine and phosphotyrosine substitutions and weakly with serine and threonine

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### Target Protein

<b>Protein Name Long:</b>	Tyrosine-protein phosphatase non-receptor type 14
<b>Protein Alias:</b>	EC 3.1.3.48; PEZ; Protein-tyrosine phosphatase pez; PTN14; PTP36
<b>UniProt ID:</b>	Q15678
<b>Protein Molecular Mass:</b>	135,261 Da (1,187 AA)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human PTPN14
<b>Antibody Immunogen Sequence:</b>	LVY(pS)QPE(βA)C
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues L483 to E489. The effect of S486 phosphorylation is unclear. This is the major site of <i>in vivo</i> phosphorylation of PTPN14 (≥55 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). This human phosphosite is highly conserved in vertebrates and also found in the frog. Note that the PTPN14 S486 site has the same sequence as S492 in PTPN21 (PTPD1; Tyrosine-protein phosphatase non-receptor type 21).
<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>	0.45 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   Rhesus macaque   Dog   Rat   Mouse   Platypus   Chicken

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