

# AB-PP516

## PTPN21-pS637 Antibody

Phosphosite-specific rabbit polyclonal antibody for PTPN21



**KINEXUS**

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### Target Protein

<b>Protein Name Long:</b>	Tyrosine-protein phosphatase non-receptor type 21
<b>Protein Alias:</b>	EC 3.1.3.48; Protein tyrosine phosphatase, non-receptor type 21; Protein-tyrosine phosphatase D1; PTN21; PTPD1; PTPRL10; Tyrosine-protein phosphatase non-receptor type 21
<b>UniProt ID:</b>	Q16825
<b>Protein Molecular Mass:</b>	133,281 Da (1,174 AA)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human PTPN21
<b>Antibody Immunogen Sequence:</b>	KRN(pS)IEVA(βA)C
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues K634 to A641. The effect of S637 phosphorylation is unclear. This is the major site of <i>in vivo</i> phosphorylation of PTPN21 (≥27 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). This human phosphosite is conserved in mammals and also found in chicken.
<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 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.
<b>Amount:</b>	25 µg
<b>Antibody Concentration:</b>	0.3 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   Chicken

This product is for *in vitro* research use only and is not intended for use in humans or animals.

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