

# AB-PP535

## PTPN11-pY584 Antibody

Phosphosite-specific rabbit polyclonal antibody for PTPN11 (PTP1D; PTP2C; SHP2; SHPTP2; Syp). This phosphotyrosine-site antibody is highly specific for phosphotyrosine.

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### Target Protein

<b>Protein Name Long:</b>	Tyrosine-protein phosphatase non-receptor type 11
<b>Protein Alias:</b>	BPTP3; EC 3.1.3.48; NS1; Protein-tyrosine phosphatase 1D; Protein-tyrosine phosphatase 2C; Protein-tyrosine phosphatase, non-receptor 11; PTN11; PTP1D; PTP-1D; PTP2C; PTP-2C; SHP2; SHPTP2; SH-PTP2; SH-PTP3; Syp
<b>UniProt ID:</b>	Q06124
<b>Protein Molecular Mass:</b>	68,436 Da (597 AA)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human PTPN11
<b>Antibody Immunogen Sequence:</b>	ARV(pY)ENVGC
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues A581 to G588. Y580 phosphorylation stimulates phosphatase activity, and induces interaction with Fyn, Grb2 and PTPN11. This is the major site of <i>in vivo</i> phosphorylation of PTPN11 ( $\geq 1233$ reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). PTPN11 is known to be phosphorylated at this site <i>in vitro</i> by Abl1, ALK, and Arg (Abl2).
<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 $\mu$ g
<b>Antibody Concentration:</b>	0.2 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 $-40^{\circ}\text{C}$ or lower. Stock solution can be kept at $+4^{\circ}\text{C}$ 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   Chicken   Frog

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