

# AB-PN776

## PLCG2-pY1217 Antibody

Phosphosite-specific rabbit polyclonal antibody for PLCG2 (PLC R). This phosphotyrosine-site antibody is highly specific for phosphotyrosine.

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### Target Protein

<b>Protein Name Long:</b>	1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma-2
<b>Protein Alias:</b>	1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma-2; Phosphoinositide phospholipase C-gamma-2; phospholipase C gamma 2; phospholipase C, gamma 2 (phosphatidylinositol-specific); phospholipase C, gamma 2 (phosphatidylinositol-specific); Phospholipase C-gamma-2; Phospholipase C-IV; PLC-gamma-2; PLC-IV; PLCG2
<b>UniProt ID:</b>	P16885
<b>Protein Molecular Mass:</b>	147870 Da (1,265 AA; P16885)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human PLCG2
<b>Antibody Immunogen Sequence:</b>	LFL(pY)DTH(βA)C
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues L1214 to H1220. Y1217 phosphorylation stimulates phosphotransferase activity. This is the major site of <i>in vivo</i> phosphorylation of PLCG2 (≥355 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). PLCG2 is known to be phosphorylated at this site <i>in vitro</i> by Btk, Hck, and Lck.
<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 multipep 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>	1 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

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