

AB-PN722

PLCG1-pY977 Antibody

Phosphosite-specific rabbit polyclonal antibody for PLCG1. This phosphotyrosine-site antibody also cross-reacts with a phosphothreonine substitution of the phosphosite.

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Target Protein

Protein Name Long:	1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma-2
Protein Alias:	1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma 1; NCKAP3; Phospholipase C, gamma 1; Phospholipase C-gamma-1; PLC1; PLC148; PLC-148; PLCG-1; PLCgamma1; PLC-gamma1; PLC-II
UniProt ID:	P19174
Protein Molecular Mass:	148,532 Da (1,290 AA; P19174-1); 148,660 Da (1,291 AA; P19174-2);

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PLCG1
Antibody Immunogen Sequence:	RAS(pY)RDM(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues R974 to M980. The effect of Y977 phosphorylation is unclear. This is the major site of <i>in vivo</i> phosphorylation of PLCG1 (≥ 665 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). This human phosphosite is conserved in mammals and found in the rat.
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
Production Method:	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.
Amount:	25 μ g
Antibody Concentration:	0.5 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	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.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human Chimpanzee Rhesus macaque Dog 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