

AB-PN723

PLCG2-pY753 Antibody

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

Website: www.kinexus.ca
Email: info@kinexus.ca
Phone: 604-323-2547



Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
Canada V6P 6T3

Target Protein

Protein Name Long:	1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma-2
Protein Alias:	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
UniProt ID:	P16885
Protein Molecular Mass:	147870 Da (1,265 AA; P16885)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PLCG2
Antibody Immunogen Sequence:	NSL(pY)DVS(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues N750 to S756. Y753 phosphorylation stimulates phospholipase activity, and regulates molecular association, including inducing interaction with Lyn. This is one of the major sites of <i>in vivo</i> phosphorylation of PLCG2 (≥276 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). This human phosphosite is conserved in mammals and found in the rat. PLCG2 is known to be phosphorylated at this site <i>in vitro</i> by Btk, Fyn, Lck, and Src.
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 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.
Amount:	25 µg
Antibody Concentration:	0.35 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