

AB-PN719

PLCB3-pS1105 Antibody

Phosphosite-specific rabbit polyclonal antibody for PLCB3



KINEXUS

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Target Protein

Protein Name Long:	1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase beta-3
Protein Alias:	1-phosphatidylinositol-4; 5-bisphosphate phosphodiesterase beta 3; EC 3.1.4.11; Phosphoinositide phospholipase C; Phospholipase C, beta 3 (phosphatidylinositol-specific); Phospholipase C-beta-3; PLC-beta3; PLC-beta-3
UniProt ID:	Q01970
Protein Molecular Mass:	138,799 Da (1,234 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PLCB3
Antibody Immunogen Sequence:	RHN(pS)ISEAC
Antibody Immunogen Description:	Corresponds to amino acid residues R1102 to A1109. S1105 phosphorylation inhibits enzyme activity. This is the major <i>in vivo</i> phosphorylation site in PLCB3 (≥ 232 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). This human phosphosite is conserved in mammals and also found in the rat. PLCB3 is known to be phosphorylated at this site <i>in vitro</i> by PKACa (PRKACA), PKCa (PRKCA), PKCb1 (PRKCB1), PKCd (PRKCD), PKCe (PRKCE), PKG1 (PRKG1), and PKG2 (PRKG2).
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 μ g
Antibody Concentration:	0.25 mg/ml
Lot Numbers:	
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 $+4^{\circ}\text{C}$ for more than 3 months. Avoid repeated freeze-thaw cycles.

Storage Stability:	>2 years
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Applications

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

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