

AB-PN528

PIK3R2-pY464 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human PIK3R2



KINEXUS

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Target Protein

Name Long:	Phosphatidylinositol 3-kinase regulatory subunit beta
Alias:	p85; p85-BETA; P85B; Phosphatidylinositol 3-kinase 85 kDa regulatory subunit beta; Phosphatidylinositol 3-kinase regulatory subunit beta; phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 2 (p85 beta); phosphoinositide-3-kinase, regulatory subunit 2 (beta); phosphoinositide-3-kinase, regulatory subunit 2 (p85 beta); phosphoinositide-3-kinase, regulatory subunit, polypeptide 2 (p85 beta); PI3-kinase regulatory subunit beta; PI3-kinase subunit p85-beta; PI3K regulatory subunit beta; PIK3R2; PtdIns-3-kinase regulatory subunit beta; PtdIns-3-kinase regulatory subunit p85-beta
UniProt ID:	O00459
Sequence Predicted Mass (KDa):	81545 (728 AA; O00459)
Observed SDS-PAGE Mass (KDa):	85-90

Immunogen

Antibody Immunogen Source:	Human PIK3R2 sequence peptide Cat. No.: PE-04AFG99
Antibody Immunogen Sequence:	DQL(pY)EEY(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues D461 to Y467; In the region between the two SH2 domains in the protein. This is the major in vivo phosphorylation site in PIK3R2.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-464

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Ig Isotype Clone Lot:	Immunoglobulin G
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 each animal 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. This antibody was also subject to negative purification over phosphotyrosine-agarose.
Antibody Amount:	25 µg
Antibody Concentration:	0.3 / 1.0 mg/ml
Lot Number:	141003 / 160301
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerazol
Storage Conditions and Stability:	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.

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Applications

Product Use:	Western blotting Antibody microarrays
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human, mouse, rat and many other vertebrates; Phosphosite is highly conserved in diverse species
Antibody Positive Controls:	Medium immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in phenylarsine oxide (PAO)+vanadate-treated HeLa cells, EGF-treated A431 cells and insulin-treated MCF7 cells, when these cells were homogenized in SDS-PAGE sample buffer.

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 www.kinexusproducts.ca or contact us at 1-866-KINEXUS(546-3987)