

AB-PN526

PIK3R1-pY467 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human PIK3R1



KINEXUS

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Target Protein

Name Long:	Phosphatidylinositol 3-kinase regulatory subunit alpha
Alias:	GRB1; p85; p85-ALPHA; P85A; Phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha; Phosphatidylinositol 3-kinase regulatory subunit alpha; phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1 (p85 alpha); phosphatidylinositol 3-kinase, regulatory, 1; phosphatidylinositol 3-kinase-associated p-85 alpha; phosphoinositide-3-kinase, regulatory subunit 1 (alpha); PI3-kinase regulatory subunit alpha; PI3-kinase subunit p85-alpha; PI3K regulatory subunit alpha; PIK3R1; PtdIns-3-kinase regulatory subunit alpha; PtdIns-3-kinase regulatory subunit p85-alpha
UniProt ID:	P27986
Sequence Predicted Mass (KDa):	83.598 (724 AA; P27986-1); 83.598 (724 AA; P27986-1); 53.486 (454 AA; P27986-2); 49.965 (424 AA; P27986-3); 42.838 (361 AA; P27986-5);
Observed SDS-PAGE Mass (KDa):	80-85

Immunogen

Antibody Immunogen Source:	Human PIK3R1 sequence peptide Cat. No.: PE-04AHI99
Antibody Immunogen Sequence:	DRL(pY)EEY(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues D464 to Y470; In the region between the two SH2 domains in the C-terminus half of the protein. This is the major in vivo phosphorylation site in PI3KR1.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-467

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:	1 mg/ml
Lot Number:	150106
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
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
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in HEK-293 and Jurkat cells.

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)