

AB-PK961

PKC θ -pS685 Antibody

Phosphosite-specific rabbit polyclonal antibody for PKC θ (PRKCQ; PKC-q; PKC-theta). This phosphoserine-site antibody also cross-reacts with phosphothreonine and phosphotyrosine substitutions and weakly with serine, threonine and glutamic acid substitutions in the phosphosite.

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Target Protein

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|--------------------------------|---|
| Protein Name Long: | Protein-serine kinase C theta |
| Protein Alias: | Kinase PKC-theta; KPCT; MGC126514; MGC141919; NPKC-theta; PKCQ; PKC-theta; PRKCQ; PRKCT; Protein kinase C, theta; Protein kinase C, theta type; CCDS7079.1; Q04759; ENSG00000065675 |
| UniProt ID: | Q04759 |
| Protein Molecular Mass: | 81,865 Da (706 AA; Q04759); 74,287 Da (643 AA; Q04759-2); 67,560 Da (581 AA; Q04759-3) |

Immunogen

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| Antibody Immunogen Source: | Synthetic phosphopeptide patterned after human PKCq |
| Antibody Immunogen Sequence: | CALIN(pS)MDQN |
| Antibody Immunogen Description: | Corresponds to amino acid residues A681 to N689. The effect of PKCq S685 phosphorylation is unclear. This is a major site of <i>in vivo</i> phosphorylation of PKCq based on mass spectrometry (≥ 36 reports documented in PhosphoSitePlus). |
| Antibody Target Type: | Phosphosite-specific |

Production

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| 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 |
| 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 |

Applications

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| Product Use: | Western blotting Antibody microarray |
| Antibody Dilution Recommended: | 2 µg/ml for immunoblotting |
| Antibody Species Reactivity: | Human Chimpanzee Dog Rat Mouse Platypus |

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