

AB-PK912

PRKD1-pS910 Antibody

Phosphosite-specific rabbit polyclonal antibody for PKD1 (PRKCM; PKCm; PRKD1). This phosphoserine-site antibody is highly specific for phosphoserine in the phosphosite.

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Target Protein

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| Protein Name Long: | Protein-serine kinase C mu (Protein kinase D) |
| Protein Alias: | EC 2.7.11.13; Kinase PKD1; KPCD1; NPKC-mu; PKCM; PKC-mu; PKD; PRKCM; PRKD1; Protein kinase C, mu type; Protein kinase D; Protein kinase D1 |
| UniProt ID: | Q15139 |
| Protein Molecular Mass: | 01,704 Da (912 AA) |

Immunogen

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| Antibody Immunogen Source: | Synthetic phosphopeptide patterned after human PRKD1 |
| Antibody Immunogen Sequence: | CGERV(pS)IL-cooh |
| Antibody Immunogen Description: | Corresponds to amino acid residues G906 to L912. S910 phosphorylation stimulates phosphotransferase activity. This is one of the minor <i>in vivo</i> phosphorylation sites in PRKD1 (≥ 13 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). PKD1 is known to be phosphorylated at this site <i>in vitro</i> by PKD1 (PRKCM, PRKD1), and PKD2 (PRKD2). |
| 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: | 1 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 Rhesus Macaque Dog Rat Mouse Platypus Zebra fish |
| Antibody Positive Control: | The observed molecular mass of the processed target protein on SDS-PAGE gels is reported to be around 100-125 kDa. |

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