

AB-PK754

PBK-pY74 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase PBK



KINEXUS

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Target Protein

Name Long:	Lymphokine-activated killer T-cell-originated protein kinase
Alias:	CT84; FLJ14385; NORI3; SPK; T-LAK cell-originated protein kinase; TOPK; TPOK
UniProt ID:	Q96KB5
Sequence Predicted Mass (KDa):	37.211 (333 AA; Q96KB5-2); 36.085 (322 AA; Q96KB5)
Observed SDS-PAGE Mass (KDa):	36-44

Immunogen

Antibody Immunogen Source:	Human PBK sequence peptide Cat. No.: PE-04AOM95
Antibody Immunogen Sequence:	NDH(pY)RSV(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues N71 to V77; In the protein kinase catalytic domain between subdomains II and III. This is the major in vivo phosphorylation site in PBK.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-74

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 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 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:	0.5 / 1.0 mg/ml
Lot Number:	150305 / 160301
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 mammals
Antibody Positive Controls:	Very strong 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, although strong background >75 KDa was observed.

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)