

AB-PK889

PBK-pY272 Antibody

Phosphosite-specific rabbit polyclonal antibody for PBK (TOPK). This phosphotyrosine-site antibody is highly specific for phosphotyrosine.

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Target Protein

Protein Name Long:	Lymphokine-activated killer T-cell-originated protein kinase
Protein Alias:	CT84; FLJ14385; NORI3; SPK; T-LAK cell-originated protein kinase; TOPK; TPOK
UniProt ID:	Q96KB5
Protein Molecular Mass:	37,211 Da (333 AA; Q96KB5-2); 36,085 Da (322 AA; Q96KB5)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PBK
Antibody Immunogen Sequence:	EAY(pY)AAL(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues E269 to L275. Y272 phosphorylation by Src stimulates phosphotransferase activity of PBK and stabilizes the protein. PBK can phosphorylate p38 MAPK, and it is primarily activated during mitosis. Phosphorylation of Y272 has not been observed in reported high throughput mass spectrometry studies recorded in PhosphoSitePlus. PBK is known to be phosphorylated at this site <i>in vitro</i> by Src.
Antibody Target Type:	Phosphosite-specific

Production

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 µg
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°C for more than 3 months. Avoid repeated freeze-thaw cycles.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human Chimpanzee Rhesus Macaque Dog Mouse Frog Zebra fish Nematode worm

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