

AB-PK519

ALK-pY1096 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase ALK



KINEXUS

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Target Protein

Name Long:	Anaplastic lymphoma receptor-tyrosine kinase
Alias:	Anaplastic lymphoma kinase; Anaplastic lymphoma kinase (Ki-1); Anaplastic lymphoma receptor tyrosine kinase; CD246; Kinase ALK; TFG/ALK; ENSG00000171094
UniProt ID:	Q9UM73
Sequence Predicted Mass (KDa):	176.442 (1620 AA; Q9UM73)
Observed SDS-PAGE Mass (KDa):	140-170

Immunogen

Antibody Immunogen Source:	Human ALK sequence peptide Cat. No.: PE-04AGW99
Antibody Immunogen Sequence:	NPN(pY)CFA(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues N1093 to A1099; In the region between the Transmembrane and kinase catalytic domains. One of the major in vivo sites of phosphorylation in ALK.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-1096

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:	150203
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:	Medium immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	EGF increases 75 KDa protein detection in A549 and phenylarsine oxide (PAO) increases 27 KDa protein in HeLa. Almost no cross-reactive proteins detected in A431, Jurkat, and HEK-293 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)