

AB-NK126-3

PDK1-CT Antibody

Pan-specific polyclonal antibody for monitoring the expression of human protein-serine/threonine kinase PDK1 (PDPK1)



KINEXUS

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Target Protein

Name Long:	3-phosphoinositide-dependent protein-serine kinase 1
Alias:	3-phosphoinositide dependent protein kinase-1; HPDK1; Kinase PDPK1; MGC20087; MGC35290; MPDK1; PDPK1; PkB kinase; PkB-like; PkB-like 2; Protein kinase B kinase
UniProt ID:	O15530
Sequence Predicted Mass (KDa):	63.152 (556 AA; O15530); 60.396 (530 AA; O15530-3); 58.035 (506 AA; O15530-2); 50.838 (454 AA; O15530-5); 48.201 (429 AA; O15530-4)
Observed SDS-PAGE Mass (KDa):	45-65

Immunogen

Antibody Immunogen Source:	Human PDK1 (PDPK1) sequence peptide Cat. No.: PE-01BEL85
Antibody Immunogen Sequence:	CRKIQEVWRQRYQSHPPDA
Location in Target:	Corresponds to amino acid residues C537 to D552; C-terminus
Peptide Type:	For pan-specific recognition of target expression levels.
Target Phosphosite:	Not phosphorylated

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.
Antibody Amount:	25 µg
Antibody Concentration:	0.5 mg/ml
Lot Number:	160630
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
Detection by Immunoblotting in Cell/Tissue Lysates:	Medium immunoreactivity of a target-sized protein by Western blotting in mouse skeletal muscle. A 44 KDa protein was also seen in various human cancer cell lines, including A431 and HepG2.
Overall Antibody Specificity:	Medium-High selectivity
Antibody Cross Reactivities:	Many medium-weak cross-reactivities detected in various human cancer cell lines, including A431, HEK-293, HeLa, HepG2, Jurkat and MCF7 cells. A strong ~13 KDa cross-reactive protein was particularly evident in A431, HEK-293, HeLa and Jurkat cells. No significant cross-reactive proteins detected in diverse mouse tissues, except for a ~75 KDa protein in mouse brain and testes, and a 25 KDa protein in mouse brain and thymus.

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)