AB-PK755

PCTK1-pY176 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase PCTK1 (PCTAIRE1, CDK16)

Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
Canada V6P 6T3

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Target Protein

Name Long:	Cell division protein kinase 16; Protein-serine kinase PCTAIRE-1
Alias:	CDK16; FLJ16665; KPT1; PCTAIRE; PCTAIRE protein kinase 1; PCTAIRE-motif protein kinase 1; PCTGAIRE; PCTK1; Serine/threonine-protein kinase PCTAIRE1; ENSG00000102225
UniProt ID:	Q00536
Sequence Predicted Mass (KDa):	63.458 (570 AA; Q00536-2); 56.375 (502 AA; Q00536-3); 55.716 (496 AA; Q00536)
Observed SDS-PAGE Mass (KDa):	50-64

Immunogen

Antibody Immunogen Source:	Human PCTK1 (PCTAIRE1, CDK16) sequence peptide Cat. No.: PE-04AJL85
Antibody Immunogen Sequence:	EGT(pY)ATV(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues E173 to V179; In the protein kinase catalytic domain in subdomain I. This is the major in vivo phosphorylation site in PCTK1.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-176

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 multipep 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:	1 mg/ml
Lot Number:	141202
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.
Detection by Immunoblotting in Cell/Tissue Lysates:	Medium immunoreactivity of a target-sized protein by Western blotting in HeLa cells that are treated for 30 minutes with phenylarsine oxide and vanadate.
Overall Antibody Specificity:	High selectivity
Antibody Cross Reactivities:	In HeLa cells, phenylarsine oxide (PAO) increases detection of 100, 80, 75, 56, 48 and 27 KDa proteins.