

AB-PK573

CDK7-pT170 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase CDK7



KINEXUS

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

Email: info@kinexus.ca
Phone: 604-323-2547

Target Protein

Name Long:	Cyclin-dependent protein-serine kinase 7
Alias:	39 kDa protein kinase; CAK; CAK1; CDK-activating kinase; CDKN7; CR4 protein kinase; CRK4; TFIIH basal transcription factor complex kinase subunit; HCAK; MO15; STK1; CDKN7; p39MO15; Q14495; CCDS3999.1; ENSG00000134058
UniProt ID:	P50613
Sequence Predicted Mass (kDa):	39.038 (346 AA; P50613)
Observed SDS-PAGE Mass (kDa):	38-43

Immunogen

Antibody Immunogen Source:	Human CDK7 sequence peptide Cat. No.: PE-04AJR99
Antibody Immunogen Sequence:	RAY(pY)HQV(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues R167 to V173; In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Thr-170

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 multipепeptide 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:	141204
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:	Strong immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in T98G cells, but a maturation-activated 75 KDa cross-reactive protein was evident in sea star oocytes.

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)