

# AB-PK561

## CDK1-pT161 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase CDK1 (CDC2)



**KINEXUS**

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

Email: [info@kinexus.ca](mailto:info@kinexus.ca)  
Phone: 604-323-2547

### Target Protein

<b>Name Long:</b>	Cyclin-dependent protein-serine kinase 1; Cell division control protein 2 homologue
<b>Alias:</b>	Cdc2; CDC28; CDC28A; CDC2A; Cell division control protein 2; Cell division cycle 2, G1 to S and G2 to M; Cyclin-dependent kinase 1; P34 protein kinase; Kinase Cdc2; MPF; DKFZp686L20222; MGC111195; ENSG00000170312
<b>UniProt ID:</b>	P06493
<b>Sequence Predicted Mass (KDa):</b>	34.095 (297 AA; P06493); 27.503 (240 AA; P06493-2)
<b>Observed SDS-PAGE Mass (KDa):</b>	30-35

### Immunogen

<b>Antibody Immunogen Source:</b>	Human CDK1 (CDC2) sequence peptide Cat. No.: PE-04AJG95
<b>Antibody Immunogen Sequence:</b>	RVY(pT)HEV(bA)C (bA) = beta-alanine
<b>Location in Target:</b>	Corresponds to amino acid residues R158 to V164; In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
<b>Peptide Type:</b>	For phosphosite-specific recognition of target.
<b>Target Phosphosite:</b>	Thr-161

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Ig Isotype Clone Lot:</b>	Immunoglobulin G
<b>Production Method:</b>	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.
<b>Antibody Amount:</b>	25 µg
<b>Antibody Concentration:</b>	1 mg/ml
<b>Lot Number:</b>	141202
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
<b>Storage Conditions and Stability:</b>	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

<b>Product Use:</b>	Western blotting   Antibody microarrays
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human, mouse, rat and many other mammals
<b>Antibody Positive Controls:</b>	Very strong immunoreactivity with immunogen peptide on dot blots.
<b>Detection by Immunoblotting in Cell/Tissue Lysates:</b>	Weak immunoreactivity of a target-sized protein by Western blotting in maturing sea star oocytes.
<b>Overall Antibody Specificity:</b>	Very high selectivity
<b>Antibody Cross Reactivities:</b>	No cross-reactive proteins detected in HeLa and A431 cells. A medium ~37 KDa cross-reactive protein was detected 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](http://www.kinexusproducts.ca) or contact us at 1-866-KINEXUS(546-3987)