

# AB-PK568

## CDK2-pT160 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase CDK2



# KINEXUS

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### Target Protein

<b>Name Long:</b>	Cyclin-dependent protein-serine kinase 2
<b>Alias:</b>	Cyclin-dependent kinase 2; Kinase Cdk2; p33 protein kinase; p33(CDK2); CCDS8898.1; ENSG00000123374
<b>UniProt ID:</b>	P24941
<b>Sequence Predicted Mass (kDa):</b>	33.930 (298 AA; P24941); 30.035 (264 AA; P24941-2)
<b>Observed SDS-PAGE Mass (kDa):</b>	33-37

### Immunogen

<b>Antibody Immunogen Source:</b>	Human CDK2 sequence peptide Cat. No.: PE-04ADY95
<b>Antibody Immunogen Sequence:</b>	RTY(pT)HEV(bA)C (bA) = beta-alanine
<b>Location in Target:</b>	Corresponds to amino acid residues R157 to V163; 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-160

### 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 multipеп 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.
<b>Antibody Amount:</b>	25 µg
<b>Antibody Concentration:</b>	1 mg/ml
<b>Lot Number:</b>	150106
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerazol
<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 vertebrates; Phosphosite is highly conserved in diverse species
<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 Jurkat cells.
<b>Overall Antibody Specificity:</b>	Medium-High selectivity
<b>Antibody Cross Reactivities:</b>	Medium to strong cross-reactivity with a ~78 KDa protein in HeLa cells, Jurkat cells, and sea star oocytes. The 78 KDa protein band shifts up with phorbol ester treatment of serum-starved HeLa and Jurkat cells or sea star oocyte maturation.

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)