

# AB-PK579

## Chk1-pS345 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase Chk1 (CHEK1)

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### Target Protein

<b>Name Long:</b>	Checkpoint protein-serine kinase 1
<b>Alias:</b>	CHEK1; CCDS8459.1; ENSG00000149554
<b>UniProt ID:</b>	O14757
<b>Sequence Predicted Mass (KDa):</b>	54.434 (476 AA; O14757); 50.415 (442 AA; O14757-3); 43.703 (382 AA; O14757-2)
<b>Observed SDS-PAGE Mass (KDa):</b>	54-58

### Immunogen

<b>Antibody Immunogen Source:</b>	Human Chk1 (CHEK1) sequence peptide Cat. No.: PE-04AJU95
<b>Antibody Immunogen Sequence:</b>	ISF(pS)QPT(bA)C (bA) = beta-alanine
<b>Location in Target:</b>	Corresponds to amino acid residues I342 to T348; In the C-terminal half of the kinase after the catalytic domain
<b>Peptide Type:</b>	For phosphosite-specific recognition of target.
<b>Target Phosphosite:</b>	Ser-345

### 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>	141107
<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 mammals
<b>Antibody Positive Controls:</b>	Very strong immunoreactivity with immunogen peptide on dot blots.
<b>Overall Antibody Specificity:</b>	Very high selectivity
<b>Antibody Cross Reactivities:</b>	No significant cross-reactive proteins detected in HeLa, MCF7 and T98G cells or in sea star oocytes, except for a weak 78 KDa protein in phorbol ester-treated HeLa cells.

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)