

AB-PK577

Chk1-pS280 Antibody

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

Address: 8755 Ash Street, Suite 1
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Target Protein

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

Immunogen

Antibody Immunogen Source:	Human Chk1 (CHEK1) sequence peptide Cat. No.: PE-04AJV95
Antibody Immunogen Sequence:	RVT(pS)GGV(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues R277 to V283; After the kinase catalytic domain in the second half of the kinase
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Ser-280

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 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.
Antibody Amount:	25 µg
Antibody Concentration:	1 mg/ml
Lot Number:	141107
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerazol
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:	Weak immunoreactivity of a target-sized protein by Western blotting in HeLa cells with nocodazole overnight treatment.
Overall Antibody Specificity:	Medium-High selectivity
Antibody Cross Reactivities:	Nocodazole treatment of HeLa yielded strong increases in 100 as well as 60, 70 and 130 KDa cross-reactive proteins. It is possible that the strong 60 KDa protein is actually the target.

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)