

AB-PK580

Chk2-pT383 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase Chk2 (CHEK2)



KINEXUS

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Target Protein

Name Long:	Checkpoint protein-serine kinase 2
Alias:	Cds1; CHEK2; CHK2 checkpoint homologue (<i>S. pombe</i>); HuCds1; LFS2; PP1425; RAD53; RP11-436C9.1; bA444G7; CCDS13843.1; ENSG00000183765
UniProt ID:	O96017
Sequence Predicted Mass (kDa):	65.419 (586 AA; O96017-9); 60.915 (543 AA; O96017); 57.526 (514 AA; O96017-12); 50.203 (452 AA; O96017-4); 38.125 (339 AA; O96017-7); 36.157 (322 AA; O96017-13); 32.142 (289 AA; O96017-8); 26.084 (234 AA; O96017-2); 24.396 (225 AA; O96017-11); 22.594 (203 AA; O96017-5); 18.706 (165 AA; O96017-6); 17.370 (162 AA; O96017-3); 15.420 (140 AA; O96017-10)
Observed SDS-PAGE Mass (kDa):	60-68

Immunogen

Antibody Immunogen Source:	Human Chk2 (CHEK2) sequence peptide Cat. No.: PE-04AJX99
Antibody Immunogen Sequence:	LMR(pT)LCG(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues L380 to G386; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Thr-383

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 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.
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:	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 and HepG2 cells.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in HepG2 and HeLa cells, but phenylarsine oxide (PAO) treatment increases a 42 KDa cross-reactive protein in 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 or contact us at 1-866-KINEXUS(546-3987)