

AB-PK582

CK2a-pY255 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase CK2a1 (CSNK2A1)



KINEXUS

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Target Protein

Name Long:	Casein protein-serine kinase 2 alpha/ alpha prime
Alias:	Casein kinase 2, alpha 1 polypeptide; Casein kinase II, alpha chain; CK II; CK2-alpha1; CKIIA; CSK21; CSNK2A1; Kinase CK2-alpha1;
UniProt ID:	P68400
Sequence Predicted Mass (kDa):	45.144 (391 AA; P68400); 29.181 (255 AA; P68400-2)
Observed SDS-PAGE Mass (kDa):	44-47

Immunogen

Antibody Immunogen Source:	Human CK2a1 (CSNK2A1) sequence peptide Cat. No.: PE-04AJZ95
Antibody Immunogen Sequence:	EDL(pY)DYI(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues E252 to I258; In the last quarter of the kinase catalytic domain. This is the major in vivo phosphorylation site in CK2a.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-255

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:	0.5 mg/ml
Lot Number:	141202
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:	Medium-weak immunoreactivity of a target-sized protein by Western blotting in A431 cells.
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in A431 cells and 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 or contact us at 1-866-KINEXUS(546-3987)