

AB-PK557

CaMKK1-pS74 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase CaMKK1 (CaMKK)



KINEXUS

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Target Protein

Name Long:	Calcium/calmodulin-dependent protein-serine kinase kinase
Alias:	Calcium/calmodulin-dependent protein kinase 1 alpha, isoform a; Calcium/calmodulin-dependent protein kinase kinase 1, alpha; CaMKK alpha protein; CAMKK1.; CAMKKA; DKFZP761M0423; KKCC1; MGC34095
UniProt ID:	Q8N5S9
Sequence Predicted Mass (KDa):	57.523 (520 AA; Q8N5S9-2); 55.735 (505 AA; Q8N5S9)
Observed SDS-PAGE Mass (KDa):	55-60

Immunogen

Antibody Immunogen Source:	Human CaMKK1 (CaMKK) sequence peptide Cat. No.: PE-04AJD99
Antibody Immunogen Sequence:	RKL(pS)LQE(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues R71 to E77; In the N-terminal quarter of the protein located before the kinase catalytic domain. On the This is the major in vivo phosphorylation sites in CaMMK1.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Ser-74

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 multipep 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:	0.25 / 0.5 mg/ml
Lot Number:	141107 / 160121
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
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	Weak 37 KDa cross-reactivity detected in phenylarsine oxide (PAO)+vanadate-treated HeLa cells, EGF-treated A431 cells, and insulin-treated MCF7 cells, when these cells were directly homogenized into SDS-PAGE sample buffer.

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)