

AB-PK553

CaMK1a-pT177 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase CaMK1a (CaMKI)



KINEXUS

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Target Protein

Name Long:	Calcium/calmodulin-dependent protein-serine kinase 1 alpha
Alias:	Calcium/calmodulin-dependent protein kinase I; Calcium/calmodulin-dependent protein kinase type I; CAM kinase I; CAMK1; CaMK1-alpha; CaMKI; KCC1; KCC1A; Kinase CaMK1-alpha
UniProt ID:	Q14012
Sequence Predicted Mass (KDa):	41.337 (370 AA; Q14012)
Observed SDS-PAGE Mass (KDa):	40-45

Immunogen

Antibody Immunogen Source:	Human CaMK1a (CaMKI) sequence peptide Cat. No.: PE-04AIZ95
Antibody Immunogen Sequence:	VLS(pT)ACG(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues V174 to G180; In the protein kinase catalytic domain.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Thr-177

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:	141024
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
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:	Medium 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 A431 cells.
Overall Antibody Specificity:	Medium-High selectivity
Antibody Cross Reactivities:	No cross-reactivities, but background is high in A431 cells. In HEK-293 has a slightly higher background with FBS treatment, but not with phenylarsine oxide (PAO) treatment.

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)