

AB-NK021-2

CaMK4-CT (CaMK4-1) Antibody

Pan-specific polyclonal antibody for monitoring the expression of human protein-serine/threonine kinase CaMK4 (CaMPK4)



KINEXUS

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Target Protein

Name Long:	Calcium/calmodulin-dependent protein-serine kinase 4
Alias:	Brain Ca ⁺⁺ -calmodulin-dependent protein kinase type IV; Calcium/calmodulin-dependent protein kinase IV; Calcium/calmodulin-dependent protein kinase type IV catalytic chain; Calspermin; CAM kinase- GR; CAM kinase IV; CAM kinase-GR; CaMK IV; CAMK4; Kinase CaMK4; CaMK-GR; CaMKIV; KCC4 CaMK IV; MGC36771; CCDS4103.1; ENSG00000152495
UniProt ID:	Q16566
Sequence Predicted Mass (KDa):	51.926 (473 AA; Q16566)
Observed SDS-PAGE Mass (KDa):	55-60

Immunogen

Antibody Immunogen Source:	Human CaMK4 (CaMPK4) sequence peptide
Antibody Immunogen Sequence:	CPQQDAILPEY
Location in Target:	Corresponds to amino acid residues Q466 to Y474; C-terminus
Peptide Type:	For pan-specific recognition of target expression levels.
Target Phosphosite:	Not phosphorylated

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Ig Isotype Clone Lot:	Immunoglobulin G
Production Method:	The immunizing peptide was produced on an A.B.I. automated peptide synthesizer. The peptide was cleaved from the synthesis resin with HF and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by amino acid 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. 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.
Antibody Amount:	25 µg
Antibody Concentration:	NK021-3 (CaMK4-1) Lot 010320 with 1 mg/ml conc. ? mg/ml
Lot Number:	NK021-3 (CaMK4-1) Lot 010320 with 1 mg/ml conc. ?
Storage Buffer:	100 mM Tris-glycine, pH 7.0
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, but either 0.1% sodium azide or 0.05% Thimerosal should be added. 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 on Western blots with recombinant mouse calmodulin-dependent protein kinase-4 expressed in sf9 insect cells.
Antibody Cross Reactivities:	In crude rat brain cytosol and membranes, this antibody primarily Western blots proteins of approximately 66 (CaMK4) and 90 KDa.

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)