

# AB-NK021-1

## CaMPK4-NT (CaMK4-2) Antibody

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



**KINEXUS**

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### Target Protein

<b>Name Long:</b>	Calcium/calmodulin-dependent protein-serine kinase 4
<b>Alias:</b>	Brain Ca <sup>++</sup> -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
<b>UniProt ID:</b>	Q16566
<b>Sequence Predicted Mass (KDa):</b>	51.926 (473 AA; Q16566)
<b>Observed SDS-PAGE Mass (KDa):</b>	55-60

### Immunogen

<b>Antibody Immunogen Source:</b>	Human CaMK4 (CaMPK4) sequence peptide
<b>Antibody Immunogen Sequence:</b>	CSSVTSSSTENLVDPYWID
<b>Location in Target:</b>	Corresponds to amino acid residues C14 to D31; N-terminus
<b>Peptide Type:</b>	For pan-specific recognition of target expression levels.
<b>Target Phosphosite:</b>	Not phosphorylated

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Ig Isotype Clone Lot:</b>	Immunoglobulin G
<b>Production Method:</b>	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.
<b>Antibody Amount:</b>	25 µg
<b>Antibody Concentration:</b>	NK021 (CaMK4-2) Lot 010320 with 0.5 mg/ml conc. ? mg/ml
<b>Lot Number:</b>	NK021 (CaMK4-2) Lot 010320 with 0.5 mg/ml conc. ?
<b>Storage Buffer:</b>	100 mM Tris-glycine, pH 7.0
<b>Storage Conditions and Stability:</b>	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

<b>Product Use:</b>	Western blotting   Antibody microarrays
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human, mouse, rat and many other mammals
<b>Antibody Positive Controls:</b>	Strong immunoreactivity on Western blots with recombinant mouse calmodulin-dependent protein kinase 4 expressed in sf9 insect 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](http://www.kinexusproducts.ca) or contact us at 1-866-KINEXUS(546-3987)