

# AB-PK556

## CaMK4-pT200 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation 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 Cat. No.: PE-04AJC90
<b>Antibody Immunogen Sequence:</b>	LMK(pT)VCG(bA)C (bA) = beta-alanine
<b>Location in Target:</b>	Corresponds to amino acid residues L197 to G203; In the protein kinase catalytic domain.
<b>Peptide Type:</b>	For phosphosite-specific recognition of target.
<b>Target Phosphosite:</b>	Thr-200

### 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 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.
<b>Antibody Amount:</b>	25 µg
<b>Antibody Concentration:</b>	1 mg/ml
<b>Lot Number:</b>	141024
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerazol
<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. 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>	Very strong immunoreactivity with immunogen peptide on dot blots.
<b>Overall Antibody Specificity:</b>	High-very high selectivity
<b>Antibody Cross Reactivities:</b>	One medium cross-reactive protein of ~110 KDa detected in HEK-293 cells and more weakly in HeLa cells. This antibody cross-reacts with several phosphoproteins in maturing, germinal vesicle positive 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](http://www.kinexusproducts.ca) or contact us at 1-866-KINEXUS(546-3987)