

# Product Datasheet

## CaM Kinase II alpha [p Thr286] Antibody - Azide Free NB300-184

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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**NB300-184****CaM Kinase II alpha [p Thr286] Antibody - Azide Free**

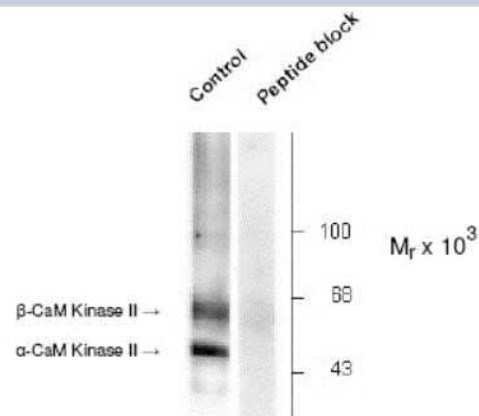
Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG
<b>Purity</b>	Antigen Affinity-purified
<b>Buffer</b>	10mM HEPES (pH 7.5), 0.15M NaCl, 0.1 mg/ml BSA and 50% Glycerol
<b>Target Molecular Weight</b>	50 kDa

Product Description	
<b>Description</b>	Novus Biologicals Rabbit CaM Kinase II alpha [p Thr286] Antibody - Azide Free (NB300-184) is a polyclonal antibody validated for use in IHC and WB. Anti-CaM Kinase II alpha Antibody: Cited in 10 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	815
<b>Gene Symbol</b>	CAMK2A
<b>Species</b>	Human, Mouse, Rat, Rabbit
<b>Reactivity Notes</b>	Human reactivity reported in scientific literature (PMID: 28972541).
<b>Specificity/Sensitivity</b>	Specific for endogenous levels of the ~50 kDa CaM Kinase II alpha and the ~60 kDa beta-CaM Kinase II proteins phosphorylated at Thr286. Immunolabeling is completely eliminated by treatment with lambda-phosphatase.
<b>Immunogen</b>	Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr286 conjugated to KLH. Accession # P11275

Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:1000, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Application Notes</b>	Use in Immunohistochemistry-paraffin reported in scientific literature (PMID: 28972541).

**Images**

Western Blot: CaMKII alpha [p Thr286] Antibody [NB300-184] - Analysis of Rat brain lysate showing specific immunolabeling of the ~50k  $\alpha$ - and the ~60k beta-CaM Kinase II phosphorylated at Thr286 (Control). The phosphospecificity of this labeling is shown in the second lane (lambda-phosphatase: lambda-Ptase). The blot is identical to the control except that it was incubated in lambda-Ptase (1200 units for 30 min) before being exposed to the Anti-Thr286 CaM Kinase II. The immunolabeling is completely eliminated by treatment with lambda-Ptase.



## Publications

Qiao Y, Li S, Liu W et al. Recent Advances of Rare-Earth Ion Doped Luminescent Nanomaterials in Perovskite Solar Cells Nanomaterials 2018-01-15 [PMID: 29342950]

Iqtadar S, Khan A, Mumtaz SU et al. Vitamin D Deficiency (VDD) and Susceptibility towards Severe Dengue Fever—A Prospective Cross-Sectional Study of Hospitalized Dengue Fever Patients from Lahore, Pakistan Tropical Medicine and Infectious Disease 2023-01-05 [PMID: 36668950]

Revathi Sekar, Karsten Motzler, Yun Kwon, Aaron Novikoff, Julia Jülg, Bahar Najafi, Surui Wang, Anna-Luisa Warnke, Susanne Seitz, Daniela Hass, Sofiya Gancheva, Sabine Kahl, Bin Yang, Brian Finan, Kathrin Schwarz, Juergen G Okun, Michael Roden, Matthias Blüher, Timo D Müller, Natalie Krahmer, Christian Behrends, Oliver Plettenburg, Marta Miaczynska, Stephan Herzig, Anja Zeigerer Vps37a regulates hepatic glucose production by controlling glucagon receptor localization to endosomes. Cell metabolism 2022-11-07 [PMID: 36243006]

Mustafa Yalcinkaya, Wenli Liu, Tong Xiao, Sandra Abramowicz, Ranran Wang, Nan Wang, Marit Westerterp, Alan R. Tall Cholesterol trafficking to the ER leads to the activation of CaMKII/JNK/NLRP3 and promotes atherosclerosis Journal of Lipid Research 2024-03-22 [PMID: 38522750]

Doran AC, Ozcan L, Cai B et al. CAMKIIg suppresses an efferocytosis pathway in macrophages and promotes atherosclerotic plaque necrosis. J. Clin. Invest. 2017-11-01 [PMID: 28972541] (IHC-P, Human)

Gleason MR, Higashijima S, Dallman J et al. (2003) Translocation of CaM kinase II to synaptic sites in vivo. Nature Neurosci 6:217-218. [PMID: 12563265]

Elgersma Y, Fedorov NB, Ikonen S et al. (2002) Inhibitory autophosphorylation of CaMKII controls PSD association, plasticity, and learning. Neuron 36:493-505. [PMID: 12408851]

Hudmon A, Schulman H. (2002) Neuronal Ca<sup>2+</sup>/calmodulin-dependent protein kinase II: The role of structure and autoregulation in cellular function. Annu Rev Biochem 71:473-510. [PMID: 12045104]

Kennedy MB. (1998) Signal transduction molecules at the glutamatergic postsynaptic membrane. Brain Res Rev 26:243-257. [PMID: 9651538]

Meng FJ, Guo J, Zhang QG, Song B, Zhang GY. Autophosphorylated calcium/calmodulin-dependent protein kinase IIa (CaMKIIa) reversibly targets to and phosphorylates N-methyl-D-aspartate receptor subunit 2B (NR2B) in cerebral ischemia and reperfusion in hippocampus of rats. Brain Res 967:161-169. 2003-01-01 [PMID: 12650977]





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NB300-184**

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NBL1-08661	CaM Kinase II alpha Overexpression Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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