

Product Datasheet

CaM Kinase II alpha Antibody - BSA Free NB100-81830

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB100-81830

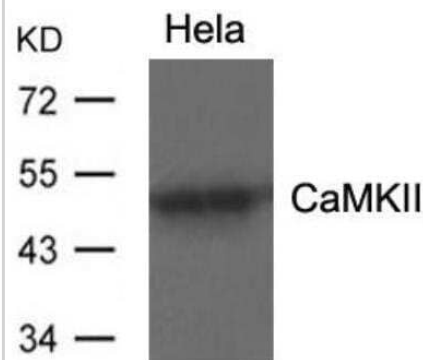
CaM Kinase II alpha Antibody - BSA Free

| Product Information | |
|-----------------------------|--|
| Unit Size | 0.1 ml |
| Concentration | 1.0 mg/ml |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Clonality | Polyclonal |
| Preservative | 0.02% Sodium Azide |
| Isotype | IgG |
| Purity | Immunogen affinity purified |
| Buffer | PBS (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150 mM NaCl, 50% glycerol |
| Target Molecular Weight | 50 kDa |
| Product Description | |
| Host | Rabbit |
| Gene ID | 815 |
| Gene Symbol | CAMK2A |
| Species | Human, Mouse, Rat |
| Specificity/Sensitivity | Detects endogenous levels of total CaMKII protein. |
| Immunogen | The antiserum was produced against synthesized non-phosphopeptide derived from human CaM Kinase II alpha around amino acids 284~288 (Q-E-T-V-D). |
| Product Application Details | |
| Applications | Western Blot, Immunohistochemistry-Paraffin |
| Recommended Dilutions | Western Blot 1:500-1:1000, Immunohistochemistry-Paraffin |
| Application Notes | Use in Immunohistochemistry-paraffin reported in scientific literature (PMID: 28912554). |

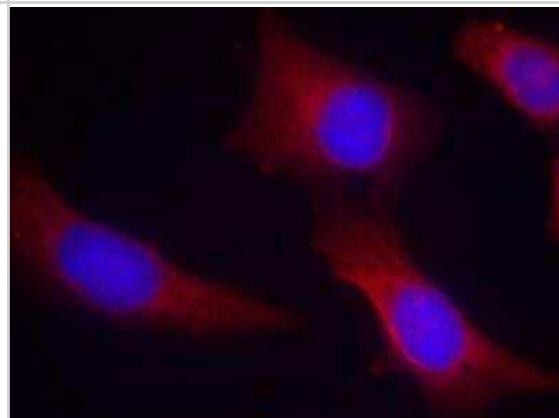


Images

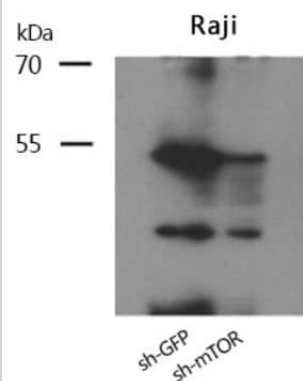
Western Blot: CaM Kinase II alpha Antibody [NB100-81830] - Analysis of extracts from Hela using NB100-81830



Immunohistochemistry-Paraffin: CaM Kinase II alpha Antibody [NB100-81830] - Staining of paraffin-embedded human hippocampal region tissue from the falling sickness disease using NB100-81830



Western Blot: CaM Kinase II alpha Antibody [NB100-81830] - Western blotting analysis using NB100-81830

**Publications**

Khoo GH, Lin YT, Tsai TC, Hsu KS. et Al. Perineuronal Nets Restrict the Induction of Long-Term Depression in the Mouse Hippocampal CA1 Region *Mol Neurobiol* 2019-03-04 [PMID: 30826967]

Yu-Ting Lin, Tsan-Yu Hsieh, Tsung-Chih Tsai, Chien-Chung Chen, Chiung-Chun Huang, Kuei-Sen Hsu Conditional Deletion of Hippocampal CA2/CA3a Oxytocin Receptors Impairs the Persistence of Long-Term Social Recognition Memory in Mice *The Journal of Neuroscience* 2018-01-31 [PMID: 29279308]

Tsuneki H, Sugiyama M, Ito T et al. Food odor perception promotes systemic lipid utilization *Nature metabolism* 2022 -11-01 [PMID: 36376564] (IHC-Fr, Mouse)

Details:

Dilution used in IHC-Fr 1:100

Lin YT, Chen CC, Huang CC, Nishimori K Oxytocin stimulates hippocampal neurogenesis via oxytocin receptor expressed in CA3 pyramidal neurons *Nat Commun.* 2017-09-13 [PMID: 28912554] (IHC-P, Mouse)



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Products Related to NB100-81830

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

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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