

Anti-CaMKII alpha/CAMK2A Antibody Picoband® Fluoro488 Conjugated

Catalog Number: A03241-1-Fluoro488

About CAMK2A

MAX (Max protein), also called Myc-associated factor x, is the most conserved dimerization component of the MYC-MAX-MXD1 network of basic helix-loop-helix leucine zipper (bHLHZ) transcription factors that regulate cell proliferation, differentiation, and apoptosis. The conservation of the MAX sequence is particularly high in the bHLHZ domain, which is involved in protein-protein interactions and DNA binding. The MAX gene is located on chromosome 14q23 by fluorescence in situ chromosomal hybridization. Both quasisymmetric heterodimers resemble the symmetric MAX homodimer, albeit with marked structural differences in the coiled-coil leucine zipper regions that explain preferential homo- and heteromeric dimerization of these 3 evolutionarily related DNA-binding proteins. MAX acts as a classic tumor suppressor gene. Normal lymphocytes from patients showed absence of methylation of the MAX promoter and biallelic expression of MAX, which ruled out an imprinting-mediated effect on MAX expression. The ability of these cells to divide, differentiate, and apoptose in the absence of Max demonstrated for the first time that these processes can occur via Max- and possibly Myc-independent mechanisms.

Overview

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| Product Name | Anti-CaMKII alpha/CAMK2A Antibody Picoband® Fluoro488 Conjugated |
| Reactive Species | Human, Mouse, Rat |
| Application | Recommended applications are based on the parent unconjugated antibody (ELISA, WB). Customers may select suitable applications according to their experimental needs. |
| Clonality | Polyclonal |
| Formulation | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ . |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light. |
| Host | Rabbit |
| Uniprot ID | Q9UQM7 |

Technical Details

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| Immunogen | E. coli-derived human CaMKII alpha recombinant protein (Position: L392-R457). |
| Cross Reactivity | No cross-reactivity with other proteins. |
| Isotype | Rabbit IgG |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Immunogen affinity purified. |

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| Conjugate | Fluoro488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm |
| Suggested Dilutions | Optimal dilutions should be determined by end users. |

5 Publications Citing This Product

1. PubMed ID: -, Meng, X.,Fu, M.,Wang, S.,Chen, W.,Wang, J.,& Zhang, N.(2021). Naringin ameliorates memory deficits and exerts neuroprotective effects in a mouse model of Alzheimer's disease by regulating multiple metabolic pathways. Molecular Medicine Reports,23,332.https://doi.org/10.3892/mmr.2021.11971
2. PubMed ID: 27451410, Inhibition of CaMKII%u03B1 in the central nucleus of amygdala attenuates fentanyl-induced hyperalgesia in rats
3. PubMed ID: 20052459, Sun Z, Niu R, Su K, Wang B, Wang J, Zhang J, Wang J. Arch Toxicol. 2010 May;84(5):353-61. Doi: 10.1007/S00204-009-0508-X. Epub 2010 Jan 6. Effects Of Sodium Fluoride On Hyperactivation And Ca2+ Signaling Pathway In Sperm From Mice: An In Vivo Study.

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