

Product datasheet for AP02774PU-N

CAMK2A Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IF, IHC, WB

Recommended Dilution: Western blot: 1/500 - 1/1000.

Immunofluorescence: 1/100 - 1/200.

Reactivity: Human, Mouse, Rat

Host: Rabbit

Polyclonal Clonality:

The antiserum was produced against synthesized non-phosphopeptide derived from human Immunogen:

CaMKII around the phosphorylation site of Threonine 286 (Q-E-Tp-V-D).

Specificity: This antibody detects endogenous levels of total CaMKII protein.

Formulation: PBS (without Mg2+ and Ca2+), pH 7.4 containing 150 mM NaCl, 0.02% Sodium Azide and 50%

Glycerol.

State: Aff - Purified

State: Liquid purified IgG fraction

Concentration: lot specific

Purification: Affinity chromatography

Conjugation: Unconjugated

Store the antibody (in aliquots) at -20°C. Storage:

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: calcium/calmodulin dependent protein kinase II alpha

Entrez Gene 12322 MouseEntrez Gene 25400 RatEntrez Gene 815 Human Database Link:

Q9UQM7



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Background: CaMKII (Calcium/calmodulin-dependent protein kinase II) is a ubiquitous serine/threonine

protein kinase that is abundant in the brain as a major constituent of the postsynaptic density (PSD). The enzyme is an oligomeric protein composed of distinct but related subunits, alpha, beta, gamma, and delta, each encoded by a separate gene. CAMK2A assembles into

heterooligomeric complexes with other CAMK2 subunits.

CaMKII is a prominent kinase in the central nervous system that may function in long term

potentiation and neurotransmitter release.

Synonyms: CAMK2A, CAMK2B, CAMKA, KIAA0968, CaM-kinase II alpha chain, CaM kinase II subunit alpha,

CaMK-II subunit alpha, CaM-kinase II beta chain, CaM kinase II subunit beta, CaMK-II subunit

beta

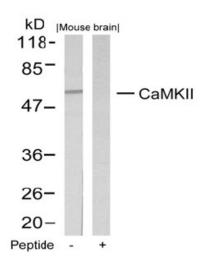
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Calcium signaling pathway, ErbB signaling pathway, Glioma, GnRH signaling pathway, Long-

term potentiation, Melanogenesis, Neurotrophin signaling pathway, Olfactory transduction,

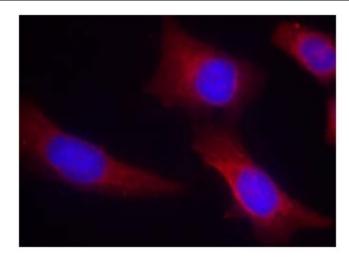
Oocyte meiosis, Wnt signaling pathway

Product images:



Western Blot analysis of extracts from mouse brain tissue using CaMKII antibody and the same antibody preincubated with blocking peptide





Immunofluorescence staining of paraffinembedded human hippocampal region tissue from the falling sickness disease using CaMKII antibody