

**Anti-Human /Mouse /Rat CAMK2N2 Polyclonal Antibody**

**Polyclonal Antibody**

**Cat.NO.: PA03384**

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3th Edition

**Description:** This gene encodes a protein that is highly similar to the rat CaM-KII inhibitory protein, an inhibitor of calcium/calmodulin-dependent protein kinase II (CAMKII). CAMKII regulates numerous physiological functions, including neuronal synaptic plasticity through the phosphorylation of alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid-type glutamate (AMPA) receptors. Studies of the similar protein in rat suggest that this protein may function as a negative regulator of CaM-KII and may act to inhibit the phosphorylation of AMPA receptors. CAMK2N2 (Calcium/Calmodulin Dependent Protein Kinase II Inhibitor 2) is a Protein Coding gene. GO annotations related to this gene include protein kinase binding and calcium-dependent protein kinase inhibitor activity. An important paralog of this gene is CAMK2N1.

**Antigen:** Synthetic peptide of human CAMK2N2 (Ab-286)

**Form:**

**How to use:** 1.0 ml distilled water will be added to the product

**Stability:** Lyophilized product, 5 years at 2 – 8°C; Solution, 2 years at –20°C

**Dilution:** PBS (pH7.4) containing 1% BSA

**Application:** This antibody can be used for western blotting in concentration of 1?5?g/ml.

**Specificity:** Expressed in cell lines including hemopoietic cell lines and some tumor cell lines. Highly Expressed in stimulated dendritic cell (DC) and weakly expressed in unstimulated mature and immature DC. Highly expressed in kidney, liver, in cell lines HeLaS3, lymphoblastic leukemia MOLT-4, and Burkitt's lymphoma Raji. Moderately expressed in heart, skeletal muscle, placenta, and chronic myelogenous leukemia K-562 cells. Weakly expressed in small intestine, colorectal adenocarcinoma SW480, and lung carcinoma A-549 cells.