

Calmodulin-Dependent Protein Kinase II (CaMKII) Polyclonal Antibody

ORDERING INFORMATION

Catalog nos.: 56370-50 (50ug) **56370-200** (200ug)

Format: Protein A-purified antibody in PBS, 50% glycerol, 0.09% sodium azide.

BACKGROUND

Calmodulin-dependent protein kinase II (CaMKII) is a serine/threonine-specific protein kinase that is regulated by the Ca2+/calmodulin complex. CaMKII is involved in many signaling cascades and is thought to be an important mediator of learning and memory. CaMKII is also necessary for Ca2+ homeostasis and reuptake in cardiomyocytes, chloride transport in epithelia, positive T-cell selection, and CD8 T-cell activation. CaMKII has 28 different isoforms that derive from the alpha, beta, gamma, and delta genes. Misregulation of CaMKII is linked to Alzheimer's disease, Angelman syndrome, and heart arrhythmia.

SPECIFICATION SUMMARY

Antigen: Synthetic peptide corresponding to aa 7-20 (N-terminus) of rat CaMKII delta isoform

conjugated to KLH.

Accession no.: P15791

Gene ID: 25246

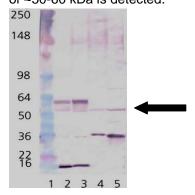
Host Species: Rabbit **Antibody Class:** Polyclonal

Specificity: This antibody recognizes alpha, delta, and gamma isoforms of human, mouse, rat,

bovine, hamster, guinea pig, chicken, and rabbit CaMKII.

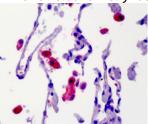
APPLICATIONS

Immunoblotting: Use at 1-5ug/ml. A band of ~50-60 kDa is detected.



Detection of CaMKII in mouse brain extract (Lane 2), rat brain extract (Lane 3), HeLa cell lysate (Lane 4), Hs-67 cell lysate (Lane 5).

Immunohistochemistry: use at 1-10ug/ml.



Detection of CaMKII in human lung.

These are recommended concentrations. Endusers should determine optimal concentrations for their applications.

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Store in appropriate aliquots to avoid multiple freeze-thaw cycles.

For in vitro investigational use only. Not intended for therapeutic or diagnostic procedures.

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