Rat Protein kinase C zeta type (PRKCZ) ELISA Kit

Catalog No: #EK8239

Package Size: #EK8239-1 48T #EK8239-2 96T

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Description

Product Name	Rat Protein kinase C zeta type (PRKCZ) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	PKC-ZETA; PKC2;
Accession No.	O19111
Uniprot	O19111
GeneID	100009538;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:1.56-100 ng/mL

Sensitivity:0.65 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PRKCZ in samples. An antibody specific for PRKCZ has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPRKCZ present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRKCZ is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PRKCZ bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Protein kinase C, zeta is an enzyme which in humans is encoded by the PRKCZ gene. The PRKCZ gene encodes at least two alternative transcripts, the full-length PKC zeta and an N-terminal truncated form PKM zeta. The truncated PKMζ is thought to be responsible for maintaining long-term memories in the brain.PKC-zeta has an N-terminal regulatory domain, followed by a hinge region and a C-terminal catalytic domain. Second messengers stimulate PKCs by binding to the regulatory domain, translocating the enzyme from cytosol to membrane, and producing a conformational change that removes autoinhibition of the PKC catalytic activity. PKM-zeta, a brain-specific isoform of PKC-zeta generated from an alternative transcript, lacks the regulatory region of full-length PKC-zeta and is therefore constitutively active.

Note: This product is for in vitro research use only