

Rat Protein kinase C beta type (PRKCB) ELISA Kit

Catalog No: #EK8246



Package Size: #EK8246-1 48T #EK8246-2 96T

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Description

Product Name	Rat Protein kinase C beta type (PRKCB) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	MGC41878; PKC-beta; PKCB; PRKCB1; PRKCB2; protein kinase C beta 1 protein kinase C; beta 1 polypeptide
Accession No.	P05772
Uniprot	P05772
GenID	100037719;
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:0.156-10 ng/mL

Sensitivity:0.057 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 PRKCB in samples. An antibody specific for PRKCB has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPRKCB present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRKCB 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 PRKCB bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways.

Protein Kinase C Beta 1 is one of the PKC family members. This protein kinase has been reported to be involved in many different cellular functions, such as B cell activation, apoptosis induction, endothelial cell proliferation, and intestinal sugar absorption. Studies in mice also suggest that this kinase may also regulate neuronal functions and correlate fear-induced conflict behavior after stress. Alternatively spliced transcript variants encoding distinct isoforms have been reported.

Note: This product is for in vitro research use only