Product Datasheet

Rat Protein kinase C (PKC) ELISA Kit

Catalog No: #EK8248

Package Size: #EK8248-1 48T #EK8248-2 96T



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

Description	
Product Name	Rat Protein kinase C (PKC) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	AAG6; MGC129900; MGC129901; PKC-alpha; PKCA; PRKACA; aging-associated gene 6 protein kinase C
	alpha type
Accession No.	P10102
Uniprot	P10102
GeneID	100037720;
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

the state of the s		
Detect Range:15.6-1000 pg/mL		
Sensitivity:3.9 pg/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 PRKCA in samples. An antibody specific for PRKCA has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPRKCA present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRKCA 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 PRKCA bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Protein kinase C, commonly abbreviated to PKC (EC 2.7.11.13), is a family of protein kinase enzymes that are involved in controlling the function of other proteins through the phosphorylation of hydroxyl groups of serine and threonine amino acid residues on these proteins, or a member of this family. PKC enzymes in turn are activated by signals such as increases in the concentration of diacylglycerol (DAG) or calcium ions (Ca2+).Hence PKC enzymes play important roles in several signal transduction cascades.

The PKC family consists of fifteen isozymes in humans. They are divided into three subfamilies, based on their second messenger requirements: conventional (or classical), novel, and atypical. Conventional (c)PKCs contain the isoforms α , β I, β II, and γ . These require Ca2+, DAG, and a phospholipid such as phosphatidylserine for activation. Novel (n)PKCs include the δ , ϵ , η , and θ isoforms, and require DAG, but do not require Ca2+

for activation. Thus, conventional and novel PKCs are activated through the same signal transduction pathway as phospholipase C. On the other hand, atypical (a)PKCs (including protein kinase M ζ and / λ isoforms) require neither Ca2+ nor diacylglycerol for activation. The term "protein kinase C" usually refers to the entire family of isoforms.

Note: This product is for in vitro research use only