Rat Serine/threonine-protein kinase N1 (PKN1) ELISA Kit

Catalog No: #EK8489

Package Size: #EK8489-1 48T #EK8489-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Rat Serine/threonine-protein kinase N1 (PKN1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	DBK; MGC46204; PAK1; PKN; PKN-ALPHA; PRK1; PRKCL1; protein kinase C-like 1|protein kinase C-like PKN|protein kinase C-related kinase 1|serine-threonine kinase N|serine/threonine protein kinase N
Accession No.	Q63433
Uniprot	Q63433
GeneID	29355;
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:0.312-20 ng/mL

Sensitivity:0.117 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 PKN1 in samples. An antibody specific for PKN1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPKN1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PKN1 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 PKN1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Serine/threonine-protein kinase N1 encoded by this gene belongs to the protein kinase C superfamily. This kinase is activated by Rho family of small G proteins and may mediate the Rho-dependent signaling pathway. This kinase can be activated by phospholipids and by limited proteolysis.

The 3-phosphoinositide dependent protein kinase-1 (PDPK1/PDK1) is reported to phosphorylate this kinase, which may mediate insulin signals to the actin cytoskeleton. The proteolytic activation of this kinase by caspase-3 or related proteases during apoptosis suggests its role in signal transduction related to apoptosis. Alternatively spliced transcript variants encoding distinct isoforms have been observed.

Note: This product is for in vitro research use only