Rat Phosphatidylglycerophosphate synthase 1 (PGS1) ELISA Kit

Catalog No: #EK12251

Package Size: #EK12251-1 48T #EK12251-2 96T

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

Description

Product Name	Rat Phosphatidylglycerophosphate synthase 1 (PGS1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	DKFZp762M186; MGC131960; CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase; mitochondrial|PGP synthase
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:Request Information

Sensitivity:Request Information

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 PGS1 in samples. An antibody specific for PGS1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPGS1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PGS1 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 PGS1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Phosphatidylglycerophosphate Synthase 1?belongs to the family of transferases, specifically those transferring non-standard substituted phosphate groups. The systematic name of this enzyme class is CDP-diacylglycerol:sn-glycerol-3-phosphate 3-phosphatidyltransferase. This enzyme participates in glycerophospholipid metabolism.Autoradiograms of replica prints, following enzyme assays, showed dark halos indicating the enzymatic synthesis of labeled phospholipid products. The method was also used to detect a cho 1 mutant defective in phosphatidylserine synthase and a strain that overproduces phosphatidylserine synthase. The method should become a valuable tool in isolating yeast strains defective in phospholipid biosynthetic enzyme activities and strains with overproduced enzyme activities.

Note: This product is for in vitro research use only