Mouse Calcium-dependent phospholipase A2 (PLA2G5) ELISA Kit

Catalog No: #EK8475

Package Size: #EK8475-1 48T #EK8475-2 96T

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

Description

Product Name	Mouse Calcium-dependent phospholipase A2 (PLA2G5) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	DKFZp686C2294; GV-PLA2; MGC46205; PLA2-10; hVPLA(2); Ca2+-dependent phospholipase A2|phosphatidylcholine 2-acylhydrolase
Accession No.	P97391
Uniprot	P97391
GeneID	18784;
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:78-5000 pg/mL

Sensitivity:31 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 PLA2G5 in samples. An antibody specific for PLA2G5 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPLA2G5 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PLA2G5 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 PLA2G5 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:PLA2G5 is located in a tightly-linked cluster of secretory phospholipase A2 genes on chromosome 1. The encoded enzyme catalyzes the hydrolysis of membrane phospholipids to generate lysophospholipids and free fatty acids including arachidonic acid. It preferentially hydrolyzes linoleoyl-containing phosphatidylcholine substrates. Secretion of this enzyme is thought to induce inflammatory responses in neighboring cells. Alternatively spliced transcript variants have been found, but their full-length nature has not been determined. This isozyme hydrolyzes more efficiently L-alpha-1-palmitoyl-2-oleoyl phosphatidylcholine than L-alpha-1-palmitoyl-2-arachidonyl phosphatidylcholine, L-alpha-1-palmitoyl-2-arachidonyl phosphatidylethanolamine, or L- alpha-1-stearoyl-2-arachidonyl phosphatidylinositol.

Note: This product is for in vitro research use only