Rabbit Cytosolic phospholipase A2 (PLA2G4A) ELISA Kit

Catalog No: #EK8477

Package Size: #EK8477-1 48T #EK8477-2 96T

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

Description

Product Name	Rabbit Cytosolic phospholipase A2 (PLA2G4A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rabbit (Oryctolagus cuniculus)
Other Names	MGC126350; PLA2G4; cPLA2-alpha; calcium-dependent phospholipid-binding protein|cytosolic phospholipase A2; group IVA|lysophospholipase|phosphatidylcholine 2-acylhydrolase
Accession No.	Q9TT38
Uniprot	Q9TT38
GeneID	100008748;
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:62.5-4000 pg/mL

Sensitivity:15.6 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 PLA2G4A in samples. An antibody specific for PLA2G4A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPLA2G4A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PLA2G4A 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 PLA2G4A bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Cytosolic phospholipases A2 (cPLA2): The intracellular PLA2 are also Ca-dependent, but they have completely different 3D structure and significantly larger than secreted PLA2 (more than 700 residues). They include C2 domain and large catalytic domain. These phospholipases are involved in cell signaling processes, such as inflammatory response. The produced Arachidonic acid is both a signaling molecule and the precursor for other signalling molecules termed eicosanoids. These include leukotrienes and prostaglandins. Some eicosanoids are synthesized from diacylglycerol, released from the lipid bilayer by phospholipase C (see below). Phospholipases A2 can be classified based on sequence homology.PLA2G4A, the cytosolic phospholipase A2, appears to subserve transmembrane signaling responses to extracellular ligands

Note: This product is for in vitro research use only