

Mouse Cytosolic phospholipase A2 delta (PLA2G4D) ELISA Kit



Catalog No: #EK8476

Orders: order@signalwayantibody.com

Package Size: #EK8476-1 48T #EK8476-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Mouse Cytosolic phospholipase A2 delta (PLA2G4D) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	cPLA2delta; phospholipase A2 delta; cytosolic phospholipase A2; group IVD
Accession No.	Q50L43
Uniprot	Q50L43
GeneID	78390;
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.064 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:Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate PLA2G4D in samples. An antibody specific for PLA2G4D has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PLA2G4D present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PLA2G4D 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 PLA2G4D bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:PLA2G4D acts as a calcium-dependent phospholipase A2 enzyme with a linoleic acid-specific activity. Using in situ hybridization and immunohistochemistry of normal and psoriatic skin, as well as skin from patients with inflammatory skin conditions such as atopic dermatitis and mycosis fungoides, the authors determined that PLA2G4D mRNA and protein display a strong specific expression in the upper epidermis in psoriatic skin, and not in lower epidermis and dermis.

A similar distribution of PLA2G4D expression, at decreased levels, was detected in the upper epidermis of patients with other inflammatory skin conditions, while PLA2G4D mRNA and protein were not detected in normal adult skin. PLA2G4D expression is specifically upregulated in the upper epidermis of patients with inflammatory skin diseases.

Note: This product is for in vitro research use only