

Mouse Group IID secretory phospholipase A2 (PLA2G2D) ELISA Kit



Catalog No: #EK8479

Orders: order@signalwayantibody.com

Package Size: #EK8479-1 48T #EK8479-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Mouse Group IID secretory phospholipase A2 (PLA2G2D) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	UNQ768; SPLASH; sPLA2S; secretory phospholipase A2s
Accession No.	Q9WVF6
Uniprot	Q9WVF6
GeneID	18782;
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:0.312-20 ng/mL

Sensitivity:0.135 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 PLA2G2D in samples. An antibody specific for PLA2G2D has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPLA2G2D present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PLA2G2D 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 PLA2G2D bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**PLA2G2D, The extracellular forms of phospholipases A2 have been isolated from different venoms (snake, bee, and wasp), from virtually every studied mammalian tissue (including pancreas and kidney) as well as from bacteria. They require Ca²⁺ for activity.Pancreatic PLA2 serve for the initial digestion of phospholipid compounds in dietary fat. Venom phospholipases help to immobilize prey by promoting cell lysis.**Analysis of enzymatic activity** detected most activity in culture supernatant and determined that PLA2G2D preferentially hydrolyzes phosphatidylglycerol and phosphatidylethanolamine, followed by phosphatidylcholine, but does not hydrolyze phosphatidylserine or phosphatidic acid. Northern blot analysis revealed variable expression of 2.0- and 1.0-kb transcripts, with highest expression in pancreas and spleen.

Note: This product is for in vitro research use only