

Mouse Phospholipase D2 (PLD2) ELISA Kit

Catalog No: #EK8447



Package Size: #EK8447-1 48T #EK8447-2 96T

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Description

Product Name	Mouse Phospholipase D2 (PLD2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (<i>Mus musculus</i>)
Other Names	Choline phosphatase 2
Accession No.	P97813
Uniprot	P97813
GeneID	18806;
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:1.56-100 ng/mL

Sensitivity:0.55 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 PLD2 in samples. An antibody specific for PLD2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPLD2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PLD2 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 PLD2 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Phosphatidylcholine (PC)-specific phospholipases D (PLDs) catalyze the hydrolysis of PC to produce phosphatidic acid and choline. Activation of PC-specific PLDs occurs as a consequence of agonist stimulation of both tyrosine kinase and G protein-coupled receptors. PC-specific PLDs have been proposed to function in regulated secretion, cytoskeletal reorganization, transcriptional regulation, and cell cycle control. Northern blot analysis demonstrated expression of an approximately 3.5-kb PLD2 transcript in various tissues including heart, placenta, pancreas, spleen, thymus, prostate, uterus, brain, lung, kidney, small intestine, and colon. Expression was relatively low in liver and skeletal muscle. An additional 3.8-kb transcript was expressed in peripheral blood leukocytes.

Note: This product is for in vitro research use only