

Mouse Group XIIIB secretory phospholipase A2-like protein (PLA2G12B) ELISA Kit

Catalog No: #EK8486

Package Size: #EK8486-1 48T #EK8486-2 96T

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Description

Product Name	Mouse Group XIIIB secretory phospholipase A2-like protein (PLA2G12B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	FKSG71; GXIIB; GXIIBsPLA2; MGC138151; PLA2G13; group XIII secreted phospholipase A2 phospholipase A2; group XIII
Accession No.	Q99P27
Uniprot	Q99P27
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:0.059 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 PLA2G12B in samples. An antibody specific for PLA2G12B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPLA2G12B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PLA2G12B 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 PLA2G12B bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The predicted 195-amino acid human protein shares 90% identity with the mouse protein and 40% identity with human PLA2G12A. It contains a 19-amino acid signal peptide and 14 cysteines, but it lacks N-glycosylation sites and has a leucine in place of the canonical histidine in its active site.

PLA2G12B is conserved in vertebrates, but not in invertebrates. SDS-PAGE revealed a 20-kD PLA2G12B protein, consistent with the calculated molecular mass of the mature protein. Northern blot analysis detected 1.4- and 6.5-kb PLA2G12B transcripts in liver, kidney, skeletal muscle, and heart. Expression of PLA2G12B was significantly weaker in tumors of kidney, liver, and small intestine compared with matched normal tissues. PLA2G12B expression varied in cancer cell lines.

Note: This product is for in vitro research use only