

# Mouse Calcium-independent phospholipase A2 (PLA2G6) ELISA Kit

Catalog No: #EK8474

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Package Size: #EK8474-1 48T #EK8474-2 96T

## Description

Product Name	Mouse Calcium-independent phospholipase A2 (PLA2G6) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	CTA-228A9.2; Cal-PLA2; GVI; INAD1; IPLA2-VIA; PARK14; PLA2; PNPLA9; iPLA2; OTTHUMP00000199457; cytosolic; calcium-independent phospholipase A2 patatin-like phosph; Cal-PLA2; GVI; INAD1; Ca2+ Independent PLA2; 85 kDa Calcium-Independent Phospholipase A2; Phospholipase A2,group VI(Cytosolic,Calcium-Independent)
Accession No.	P97819
Uniprot	P97819
GeneID	53357;
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:78-5000 pg/mL

Sensitivity:30 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 PLA2G6 in samples. An antibody specific for PLA2G6 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPLA2G6 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PLA2G6 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 PLA2G6 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**85 kDa calcium-independent phospholipase A2 is is an A2 phospholipase, a class of enzyme that catalyzes the release of fatty acids from phospholipids. The encoded protein may play a role in phospholipid remodelling, arachidonic acid release, leukotriene and prostaglandin synthesis, fas-mediated apoptosis, and transmembrane ion flux in glucose-stimulated B-cells. Several transcript variants encoding multiple isoforms have been described, but the full-length nature of only two of them have been determined to

date. Tang et al. (1997) purified an 85-kD cytosolic calcium-independent PLA2, termed iPLA2, from Chinese hamster ovary (CHO) cells. They isolated a partial human cDNA from a Burkitt lymphoma cDNA library by screening with a CHO cDNA. Northern blot analysis revealed that iPLA2 is expressed in a variety of rodent tissues.

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Note: This product is for in vitro research use only