



Anti-PLA2G4A (internal region) polyclonal antibody (DPAB-DC2262)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes a member of the cytosolic phospholipase A2 group IV family. The enzyme catalyzes the hydrolysis of membrane phospholipids to release arachidonic acid which is subsequently metabolized into eicosanoids. Eicosanoids, including prostaglandins and leukotrienes, are lipid-based cellular hormones that regulate hemodynamics, inflammatory responses, and other intracellular pathways. The hydrolysis reaction also produces lysophospholipids that are converted into platelet-activating factor. The enzyme is activated by increased intracellular Ca(2+) levels and phosphorylation, resulting in its translocation from the cytosol and nucleus to perinuclear membrane vesicles.
Immunogen	A synthetic peptide corresponding to amino acids at internal region of human PLA2G4A. The sequence is C-QEKTFRQQRKEHIR
Source/Host	Goat
Species Reactivity	Human, Mouse
Purification	Antigen affinity purification
Conjugate	Unconjugated
Applications	WB (Cell lysate), ELISA,
Format	Liquid
Concentration	0.5 mg/mL
Size	100 µg
Buffer	In 0.5 mg/mL Tris saline, pH 7.3 (0.02% sodium azide, 0.5% BSA)
Preservative	0.02% Sodium Azide

Storage

Store at -20°C. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	PLA2G4A phospholipase A2, group IVA (cytosolic, calcium-dependent) [Homo sapiens (human)]
Official Symbol	PLA2G4A
Synonyms	PLA2G4A; phospholipase A2, group IVA (cytosolic, calcium-dependent); PLA2G4; cPLA2-alpha; cytosolic phospholipase A2; cPLA2; lysophospholipase; phospholipase A2 group IVA; phosphatidylcholine 2-acylhydrolase; calcium-dependent phospholipid-binding protein;
Entrez Gene ID	5321
Protein Refseq	NP_077734
UniProt ID	P47712
Chromosome Location	1q25
Pathway	ADP signalling through P2Y purinoceptor 1; Acyl chain remodeling of CL; Acyl chain remodelling of PE; Acyl chain remodelling of PI
Function	calcium ion binding; calcium-dependent phospholipase A2 activity; calcium-dependent phospholipid binding; lysophospholipase activity