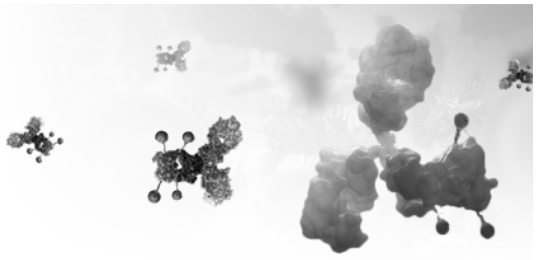

Anti-PLA2G4A (aa 1-110) polyclonal antibody (DPAB-DC2263)

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	PLA2G4A (NP_077734, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. The sequence is MSFIDPYQHIIVEHQYSHKFTVVVLRATKVTKGAFGDMLDTPDPYVELFISTTPDSRKRT RHFNNDINPVWNETFEFILDPNQENVLEITLMDANYVMDETLGTATFTVS
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221
© Creative Diagnostics All Rights Reserved

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

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221
© Creative Diagnostics All Rights Reserved