

PLA2G4A polyclonal antibody (A01)

Catalog # H00005321-A01

Size 50 uL

Specification

Product Description	Mouse polyclonal antibody raised against a partial recombinant PLA2G4A.
Immunogen	PLA2G4A (NP_077734, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag.
Sequence	MSFIDPYQHIVEHQYSHKFTVVVLRATKVTKGAFGDMLDTPDPYVELFISTTPDSRKRTRHFNNNDIN PVWNETFEFILDPNQENVLEITLMDANYVMDETLGTATFTVS
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (98); Rat (98)
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	50 % glycerol
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- ELISA

Gene Info — PLA2G4A

Entrez GeneID	5321
GeneBank Accession#	NM_024420
Protein Accession#	NP_077734
Gene Name	PLA2G4A

Gene Alias	MGC126350, PLA2G4, cPLA2-alpha
Gene Description	phospholipase A2, group IVA (cytosolic, calcium-dependent)
Omim ID	600522
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	OTTHUMP00000033543 calcium-dependent phospholipid-binding protein cytosolic phospholipase A2, group IVA lysophospholipase phosphatidylcholine 2-acylhydrolase

Publication Reference

- [Reduced group IVA phospholipase A2 expression is associated with unfavorable outcome for patients with gastric cancer.](#)

Zhang X, Wu Q, Gan L, Yu GZ, Wang R, Wang ZS, Wang JJ, Wang X.

Medical Oncology 2013 Mar; 30(1):454.

Application: IHC, Human, Human gastric tissue

Pathway

- [alpha-Linolenic acid metabolism](#)
- [Arachidonic acid metabolism](#)
- [Ether lipid metabolism](#)
- [Fc epsilon RI signaling pathway](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Glycerophospholipid metabolism](#)
- [GnRH signaling pathway](#)
- [Linoleic acid metabolism](#)

- [Long-term depression](#)
- [MAPK signaling pathway](#)
- [Metabolic pathways](#)
- [Vascular smooth muscle contraction](#)
- [VEGF signaling pathway](#)

Disease

- [Adenomatous Polyposis Coli](#)
- [Alzheimer disease](#)
- [Asthma](#)
- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Connective Tissue Diseases](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Ductus Arteriosus](#)
- [Edema](#)
- [Fetal Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Hyperinsulinism](#)
- [Infant](#)
- [Infection](#)
- [Inflammation](#)
- [Metabolic Syndrome X](#)

- [Mood Disorders](#)
- [Musculoskeletal Diseases](#)
- [Neoplasms](#)
- [Osteoarthritis](#)
- [Osteoporosis](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Psychiatric Status Rating Scales](#)
- [Psychotic Disorders](#)
- [Schizophrenia](#)
- [Skin Diseases](#)
- [Tobacco Use Disorder](#)