

PA21B Polyclonal Antibody

Catalog No :	YN1055
Reactivity :	Human;Rat;Mouse;
Applications :	WB;ELISA
Target :	PA21B
Fields :	>>Glycerophospholipid metabolism;>>Ether lipid metabolism;>>Arachidonic acid metabolism;>>Linoleic acid metabolism;>>alpha-Linolenic acid metabolism;>>Metabolic pathways;>>Ras signaling pathway;>>Vascular smooth muscle contraction;>>Pancreatic secretion;>>Fat digestion and absorption
Gene Name :	PLA2G1B PLA2 PLA2A PPLA2
Protein Name :	Phospholipase A2 (EC 3.1.1.4) (Group IB phospholipase A2) (Phosphatidylcholine 2-acylhydrolase 1B)
Human Gene Id :	5319
Human Swiss Prot No :	P04054
Mouse Swiss Prot No :	Q9Z0Y2
Rat Swiss Prot No :	P04055
Immunogen :	Synthesized peptide derived from human protein . at AA range: 70-150
Specificity :	PA21B Polyclonal Antibody detects endogenous levels of protein.
Formulation :	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000 ELISA 1:5000-20000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	16kD
Cell Pathway :	Glycerophospholipid metabolism;Ether lipid metabolism;Arachidonic acid metabolism;Linoleic acid metabolism;alpha-Linolenic acid metabolism;MAPK_ERK_Growth;MAPK_G_Protein;Vascular smooth muscle contrac
Background :	This gene encodes a secreted member of the phospholipase A2 (PLA2) class of enzymes, which is produced by the pancreatic acinar cells. The encoded calcium-dependent enzyme catalyzes the hydrolysis of the sn-2 position of membrane glycerophospholipids to release arachidonic acid (AA) and lysophospholipids. AA is subsequently converted by downstream metabolic enzymes to several bioactive lipophilic compounds (eicosanoids), including prostaglandins (PGs) and leukotrienes (LTs). The enzyme may be involved in several physiological processes including cell contraction, cell proliferation and pathological response. [provided by RefSeq, Aug 2013],
Function :	catalytic activity:Phosphatidylcholine + H(2)O = 1-acylglycerophosphocholine + a carboxylate.,cofactor:Binds 1 calcium ion per subunit.,function:PA2 catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides.,similarity:Belongs to the phospholipase A2 family.,
Subcellular Location :	Secreted . Secreted from pancreatic acinar cells in its inactive form.
Expression :	Selectively expressed in pancreas, lung, liver and kidney. Also detected at lower levels in ovary and testis.

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