



Rabbit Anti-Secretory phospholipase A2 Type V antibody

SL19624R

Product Name:	Secretory phospholipase A2 Type V
Chinese Name:	分泌型磷脂酶A2亚基5抗体
Alias:	Ca ²⁺ dependent phospholipase A2; Calcium dependent phospholipase A2; Calcium-dependent phospholipase A2; DKFZp686C2294; FRFB; Group V phospholipase A2; GV PLA2; gVPLA2; hVPLA(2); MGC46205; OTTHUMP00000044655; PA2G5_HUMAN; Phosphatidylcholine 2 acylhydrolase; Phosphatidylcholine 2-acylhydrolase 5; Phospholipase A2 group V; PLA2 10; PLA2 G5; PLA2-10; PLA2G5.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	14kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Secretory phospholipase A2 Type V:21-80/138
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

This gene is a member of the secretory phospholipase A2 family. It is located in a tightly-linked cluster of secretory phospholipase A2 genes on chromosome 1. The encoded enzyme catalyzes the hydrolysis of membrane phospholipids to generate lysophospholipids and free fatty acids including arachidonic acid. It preferentially hydrolyzes linoleoyl-containing phosphatidylcholine substrates. Secretion of this enzyme is thought to induce inflammatory responses in neighboring cells. Alternatively spliced transcript variants have been found, but their full-length nature has not been determined. [provided by RefSeq, Jul 2008]

Function:

PA2 catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides. This isozyme hydrolyzes more efficiently L-alpha-1-palmitoyl-2-oleoyl phosphatidylcholine than L-alpha-1-palmitoyl-2-arachidonyl phosphatidylcholine, L-alpha-1-palmitoyl-2-arachidonyl phosphatidylethanolamine, or L-alpha-1-stearoyl-2-arachidonyl phosphatidylinositol. May be involved in the production of lung surfactant, the remodeling or regulation of cardiac muscle.

Subcellular Location:

Secreted.

Tissue Specificity:

Heart, placenta and less abundantly, in lung.

Post-translational modifications:

This enzyme lacks one of the seven disulfide bonds found in similar PA2 proteins.

Similarity:

Belongs to the phospholipase A2 family.

SWISS:

P39877

Gene ID:

5322

Database links:

[Entrez Gene: 5322](#) Human

[Entrez Gene: 18784](#) Mouse

[Entrez Gene: 29354](#) Rat

[Omim: 601192](#) Human

[SwissProt: P39877](#) Human

Product Detail:

[SwissProt: P97391](#) Mouse

[SwissProt: P51433](#) Rat

[Unigene: 319438](#) Human

[Unigene: 23347](#) Mouse

[Unigene: 20244](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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