

# Product datasheet

info@arigobio.com

# ARG56500 anti-Phospholipase A2 V antibody

Package: 250 μl Store at: -20°C

# **Summary**

Product Description Rabbit Polyclonal antibody recognizes Phospholipase A2 V

Tested Reactivity Hu, Ms, Rat

Tested Application WB

Specificity This antibody does not react to cPLA2, iPLA2 and Human synovial sPLA2 (Type II).

Host Rabbit

**Clonality** Polyclonal

Isotype IgG

Target Name Phospholipase A2 V

Species Mouse

Immunogen Synthetic peptide around an internal region of Mouse Phospholipase A2 V.

Conjugation Un-conjugated

Alternate Names Group V phospholipase A2; hVPLA(2); FRFB; GV-PLA2; PLA2-10; EC 3.1.1.4; Calcium-dependent

phospholipase A2; Phosphatidylcholine 2-acylhydrolase 5

# **Application Instructions**

Application table	Application	Dilution
	WB	1:200
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

# **Properties**

Form Liquid

Purification Affinity purification with immunogen.

Buffer TBS (pH 7.4), 0.02% Sodium azide, 50% Glycerol and 0.1% BSA.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol and 0.1% BSA

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Gene Symbol Pla2g5

Gene Full Name phospholipase A2, group V

Background 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] PA2 catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides. This

Function PA2 catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides. Thi 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. [UniProt]

Calculated Mw 16 kDa

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

### **Images**

# 1 2 3 4 5 6 7 8 9 10

# ARG56500 anti-Phospholipase A2 V antibody WB image

Western blot: 1) 0.025  $\mu g$  of Recombinant Human sPLA2 (Type V), 2) 0.05  $\mu g$  of Recombinant Human sPLA2 (Type V), 3) 0.075  $\mu g$  of Recombinant Human sPLA2 (Type V), 4) 0.1  $\mu g$  of Recombinant Human sPLA2 (Type V), 5) 0.25  $\mu g$  of Recombinant Human sPLA2 (Type V), 6) 50  $\mu g$  of A10 smooth muscle cell lysate (iPLA2), 7) 1  $\mu g$  of Bee venom PLA2, 8) 1  $\mu g$  of Human sPLA2 (Type II), 9) 50  $\mu g$  of HeLa cell lysate (cPLA2), and 10) 0.25  $\mu g$  of Recombinant Human sPLA2 (Type V) stained with ARG56500 anti-Phospholipase A2 V antibody.