

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.	

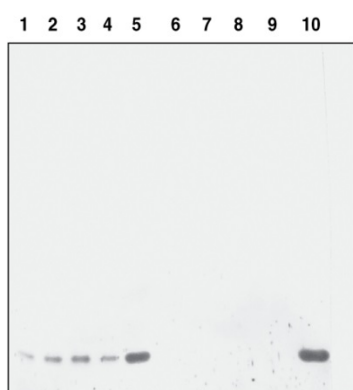
Properties

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]
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. [UniProt]
Calculated Mw	16 kDa
PTM	This enzyme lacks one of the seven disulfide bonds found in similar PA2 proteins.

Images



ARG56500 anti-Phospholipase A2 V antibody WB image

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