

ARG65251
anti-PLA2G4A antibodyPackage: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes PLA2G4A
Tested Reactivity	Hu, Ms
Predict Reactivity	Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	PLA2G4A
Species	Human
Immunogen	C-QEKTFRQQRKEHIR
Conjugation	Un-conjugated
Alternate Names	Phospholipase A2 group IVA; cPLA2; cPLA2-alpha; Phosphatidylcholine 2-acylhydrolase; PLA2G4; Cytosolic phospholipase A2; EC 3.1.1.5; EC 3.1.1.4

Application Instructions

Application table	Application	Dilution
	FACS	10 µg/ml
	ICC/IF	10 µg/ml
	IHC-P	3 - 5 µg/ml
	WB	0.3 - 1 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml

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 or below. 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

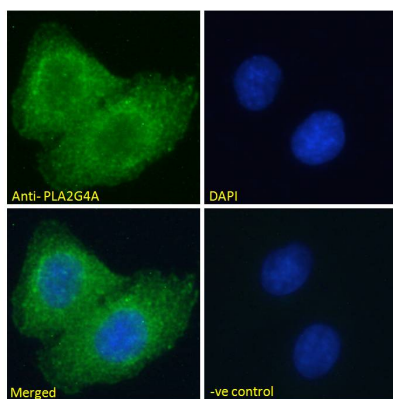
Database links	GeneID: 18783 Mouse GeneID: 5321 Human Swiss-port # P47712 Human Swiss-port # P47713 Mouse
Background	This gene encodes a member of the cytosolic phospholipase A2 group IV family. The enzyme catalyzes the hydrolysis of membrane phospholipids to release arachidonic acid which is subsequently 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, Jul 2008]
Research Area	Cell Biology and Cellular Response antibody; Immune System antibody; Metabolism antibody; Signaling Transduction antibody
Calculated Mw	85 kDa
PTM	Activated by phosphorylation at both Ser-505 and Ser-727.

Images



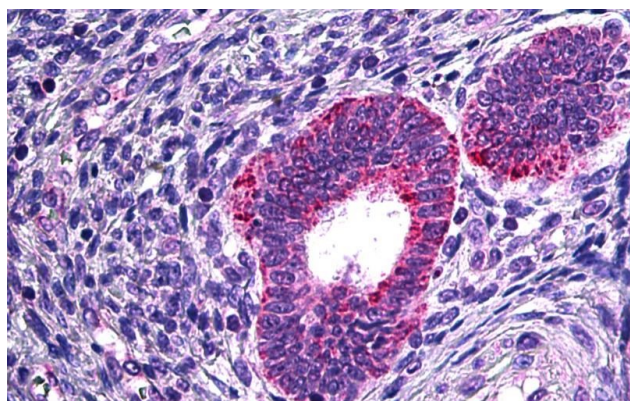
ARG65251 anti-PLA2G4A antibody WB image

Western Blot: HeLa lysate (35 µg protein in RIPA buffer) stained with ARG65251 anti-PLA2G4A antibody at 1 µg/ml dilution.



ARG65251 anti-PLA2G4A antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed A549 cells permeabilized with 0.15% Triton. Cells were stained with ARG65251 anti-PLA2G4A antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 10 µg/ml dilution.



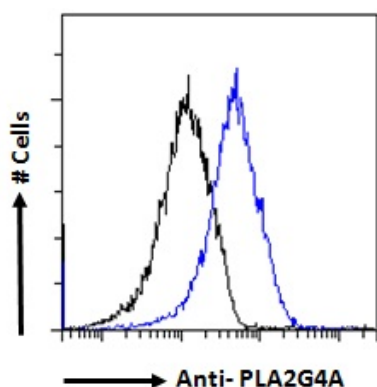
ARG65251 anti-PLA2G4A antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human uterus tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG65251 anti-PLA2G4A antibody at 3.75 µg/ml dilution followed by AP-staining.



ARG65251 anti-PLA2G4A antibody WB image

Western blot: 35 µg of A549 cell lysate (in RIPA buffer) stained with ARG65251 anti-PLA2G4A antibody at 1 µg/ml dilution and incubated at RT for 1 hour.



ARG65251 anti-PLA2G4A antibody FACS image

Flow Cytometry: Paraformaldehyde-fixed A549 cells permeabilized with 0.5% Triton. Cells were stained with ARG65251 anti-PLA2G4A antibody (blue line) at 10 µg/ml dilution for 1 hour, followed by incubation with Alexa FluorR 488 labelled secondary antibody. IgG control: Unimmunized goat IgG (black line).