

Rabbit PLA2G4A Polyclonal Antibody | anti-PLA2G4A antibody

PLA2G4A Antibody (Center)

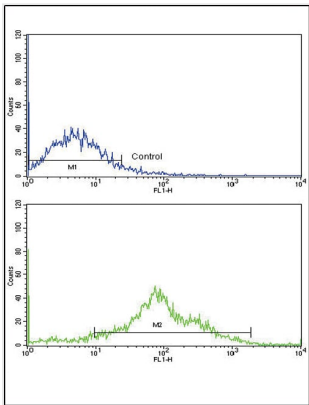
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283704	Rabbit	Human (Predicted Reactivity: Chicken, Zebrafish, Mouse, Rabbit, Rat)	Flow Cytometry, Functional Assay, Western Blot, Immunofluorescence, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

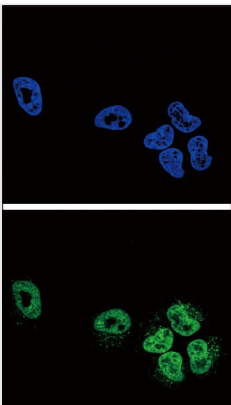
PLA2G4A; Polyclonal Antibody; PLA2G4A Antibody (Center); Cytosolic phospholipase A2; cPLA2; Phospholipase A2 group IVA; Phospholipase A2; Phosphatidylcholine 2-acylhydrolase; Lysophospholipase; CPLA2; PLA2G4; anti-PLA2G4A antibody

PRODUCT SPECIFICATIONS

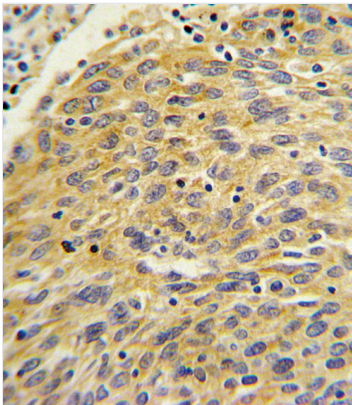
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Chicken, Zebrafish, Mouse, Rabbit, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PLA2G4A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 513-541 amino acids from the Central region of human PLA2G4A.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.41 (varies by lot)
Sequence Positions	513-541
Sequence Length	749
Applicable Applications for anti-PLA2G4A antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA
Antigen Type	Synthetic Peptide
Crown Antibody	Yes
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



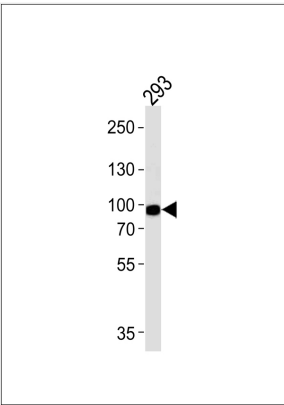
FCM/FACS (Flow Cytometry)
Flow cytometric analysis of NCI-H292 cells using PLA2G4A Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IF (Immunofluorescence)
Confocal immunofluorescent analysis of PLA2G4A Antibody (Center) with NCI-H460 cell followed by Alexa Fluor[®] 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human lung carcinoma with PLA2G4A Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of lysate from 293 cell line, using PLA2G4A Antibody (Center). AAA283704 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

ADDITIONAL INFORMATION

Related Product Information for anti-PLA2G4A antibody	PLA2G4A is 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.
Product Categories/Family for anti-PLA2G4A antibody	Crown Antibodies; Cardiovascular; Immunology; Neuroscience
References	Sharp,J.D.,et.al., J. Biol. Chem. 266 (23), 14850-14853 (1991) Clark,J.D., et.al., Cell 65 (6), 1043-1051 (1991)

NCBI AND UNIPROT INFORMATION

NCBI GI #	23943920
NCBI GeneID	5321
NCBI Accession #	NP_077734.1

NCBI GenBank Nucleotide #	NM_024420.2
UniProt Accession #	P47712 ; Q29R80 ; B1AKG4
Molecular Weight	85239
NCBI Official Full Name	cytosolic phospholipase A2
NCBI Official Synonym Full Names	phospholipase A2, group IVA (cytosolic, calcium-dependent)
NCBI Official Symbol	PLA2G4A
NCBI Official Synonym Symbols	PLA2G4; cPLA2-alpha
NCBI Protein Information	cytosolic phospholipase A2
UniProt Protein Name	Cytosolic phospholipase A2
UniProt Gene Name	PLA2G4A
UniProt Synonym Gene Names	CPLA2; PLA2G4; cPLA2
UniProt Entry Name	PA24A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/pla2g4a-antibody-flow-cytometry-western-blot-immunofluorescence-immunohistochemistry-elisa/283704>