

Rabbit cPLA2 beta/PLA2G4B Polyclonal Antibody | anti-PLA2G4B antibody

Anti-cPLA2 beta/PLA2G4B Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125816	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

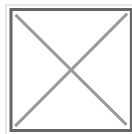
PRODUCT SYNONYMS

cPLA2 beta/PLA2G4B; Polyclonal Antibody; Anti-cPLA2 beta/PLA2G4B Antibody; PLA2G4B; Cytosolic phospholipase A2 beta; cPLA2-beta; Phospholipase A2 group IVB; phospholipase A2 group IVB; anti-PLA2G4B antibody

PRODUCT SPECIFICATIONS

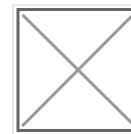
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for cPLA2 beta/PLA2G4B detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-PLA2G4B antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human cPLA2 beta/PLA2G4B recombinant protein (Position: N61-H781).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of Hela cells using anti-cPLA2 beta/PLA2G4B antibody (AAA125816). Overlay histogram showing Hela cells stained with AAA125816 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-cPLA2 beta/PLA2G4B Antibody (AAA125816, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of cPLA2 beta/PLA2G4B using anti-cPLA2 beta/PLA2G4B antibody (AAA125816). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions. Lane 1: rat brain tissue lysates. Lane 2: mouse brain tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-cPLA2 beta/PLA2G4B antigen affinity purified polyclonal antibody (Catalog # AAA125816) at 0.5 μg/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for cPLA2 beta/PLA2G4B at approximately 88KD. The expected band size for cPLA2 beta/PLA2G4B is at 88KD.

ADDITIONAL INFORMATION

Related Product Information for anti-PLA2G4B antibody	Phospholipase A2, group IVB (cytosolic), also known as PLA2G4B, is a human gene. This gene encodes a member of the cytosolic phospholipase A2 protein family. Phospholipase A2 enzymes hydrolyze the sn-2 bond of phospholipids, releasing lysophospholipids and fatty acids. This enzyme may be associated with mitochondria and early endosomes. Most tissues also express read-through transcripts from the upstream gene into this gene, some of which may encode fusion proteins combining the N-terminus of the upstream gene including its JmjC domain with the almost complete coding region of this gene, including the C2 and cytoplasmic phospholipase A2 domains.
References	1. Pickard, R. T., Striffler, B. A., Kramer, R. M., Sharp, J. D. Molecular cloning of two new human paralogs of 85-kDa cytosolic phospholipase A2. J. Biol. Chem. 274: 8823-8831, 1999.

NCBI AND UNIPROT INFORMATION

NCBI GI #	167860120
NCBI GeneID	100137049
NCBI Accession #	NP_001108105.1
NCBI GenBank Nucleotide #	NM_001114633.1
UniProt Accession #	POC869; O95712; Q19KD5; Q19KD6; Q59GF9; Q8TB10; Q9UKV7; B4DRT9
Molecular Weight	114,121 Da
NCBI Official Full Name	cytosolic phospholipase A2 beta
NCBI Official Synonym Full Names	phospholipase A2, group IVB (cytosolic)
NCBI Official Symbol	PLA2G4B
NCBI Official Synonym Symbols	HsT16992; cPLA2-beta
NCBI Protein Information	cytosolic phospholipase A2 beta
UniProt Protein Name	Cytosolic phospholipase A2 beta
UniProt Gene Name	PLA2G4B
UniProt Synonym Gene Names	cPLA2-beta
UniProt Entry Name	PA24B_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://stage.aaabiotech.com/polyclonal/cpla2-beta-pla2g4b-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125816>