

Rabbit anti-Human, Mouse PLA2G3 Polyclonal Antibody | anti-PLA2G3 antibody

Anti-PLA2G3 Antibody Picoband

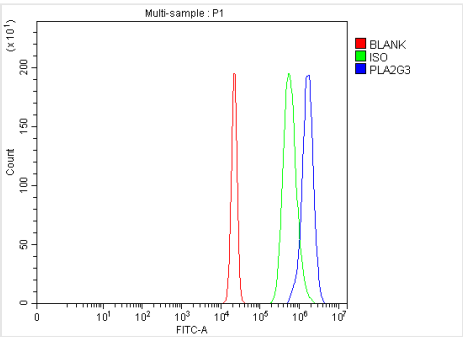
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127483	Rabbit	Human, Mouse	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

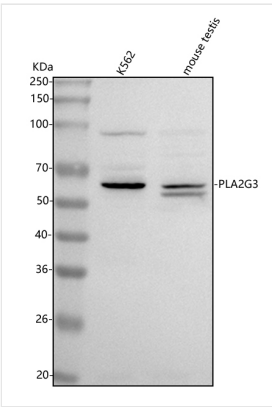
PLA2G3; Polyclonal Antibody; Anti-PLA2G3 Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-PLA2G3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-PLA2G3 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human PLA2G3 recombinant protein (Position: E74-R358). Human PLA2G3 shares 66.8% amino acid (aa) sequence identity with mouse PLA2G3.
Subcellular Localization	Cytoplasm, Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross reactivity with other proteins.
Protein Function	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of HepG2 cells using anti-PLA2G3 antibody (AAA127483).Overlay histogram showing HepG2 cells stained with AAA127483 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PLA2G3 Antibody (AAA127483, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/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 PLA2G3 using anti-PLA2G3 antibody (AAA127483).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 30 ug of sample under reducing conditions.Lane 1: human K562 whole cell lysates,Lane 2: mouse testis tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-PLA2G3 antigen affinity purified polyclonal antibody (#AAA127483) at 0.5ug/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 PLA2G3 at approximately 65 kDa. The expected band size for PLA2G3 is at 57 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PLA2G3 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-PLA2G3 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Kim, J., Lee, J. E., Heynen-Genel, S., Suyama, E., Ono, K., Lee, K., Ideker, T., Aza-Blanc, P., Gleeson, J. G. Functional genomic screen for modulators of ciliogenesis and cilium length. Nature 464: 1048-1051, 2010.2. Murakami, M., Masuda, S., Shimbara, S., Bezzine, S., Lazdunski, M., Lambeau, G., Gelb, M. H., Matsukura, S., Kokubu, F., Adachi, M., Kudo, I. Cellular arachidonate-releasing function of novel classes of secretory phospholipase A(2)s (groups III and XII). J. Biol. Chem. 278: 10657-10667, 2003. 3. Murakami, M., Masuda, S., Shimbara, S., Ishikawa, Y., Ishii, T., Kudo, I. Cellular distribution, post-translational modification, and tumorigenic potential of human group III secreted phospholipase A(2). J. Biol. Chem. 280: 24987-24998, 2005.

NCBI AND UNIPROT INFORMATION

NCBI GI #	142976884
NCBI GeneID	50487
NCBI Accession #	NP_056530.2
NCBI GenBank Nucleotide #	NM_015715.4
UniProt Accession #	Q9NZ20; O95768
Molecular Weight	57,167 Da
NCBI Official Full Name	group 3 secretory phospholipase A2
NCBI Official Synonym Full Names	phospholipase A2, group III

NCBI Official Symbol	PLA2G3
NCBI Official Synonym Symbols	SPLA2III; sPLA2-III; GIII-SPLA2
NCBI Protein Information	group 3 secretory phospholipase A2; group III secreted phospholipase A2; phosphatidylcholine 2-acylhydrolase 3; phosphatidylcholine 2-acylhydrolase GIII
UniProt Protein Name	Group 3 secretory phospholipase A2
UniProt Gene Name	PLA2G3
UniProt Synonym Gene Names	GIII sPLA2; sPLA2-III
UniProt Entry Name	PA2G3_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/pla2g3-antibody-flow-cytometry-western-blot-elisa/127483>