

Rabbit anti-Human PLCB2 Polyclonal Antibody | anti-PLCB2 antibody

Anti-PLCB2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127336	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

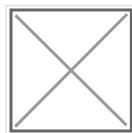
PRODUCT SYNONYMS

PLCB2; Polyclonal Antibody; Anti-PLCB2 Antibody Picoband; anti-PLCB2 antibody

PRODUCT SPECIFICATIONS

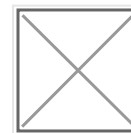
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PLCB2 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human PLCB2 recombinant protein (Position: D27-L1185). Human PLCB2 shares 85.7% and 85.3% amino acid (aa) sequence identity with mouse and rat PLCB2, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of THP-1 cells using anti-PLCB2 antibody (AAA127336). Overlay histogram showing THP-1 cells stained with AAA127336 (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-PLCB2 Antibody (AAA127336, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of PLCB2 using anti-PLCB2 antibody (AAA127336). 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 HEL whole cell 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-PLCB2 antigen affinity purified polyclonal antibody (#AAA127336) 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 PLCB2 at approximately 140 kDa. The expected band size for PLCB2 is at 134 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PLCB2 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-PLCB2 antibody	Primary Antibodies
References	1. Lee, S. B., Rao, A. K., Lee, K.-H., Yang, X., Bae, Y. S., Rhee, S. G. Decreased expression of phospholipase C-b2 isozyme in human platelets with impaired function. Blood 88: 1684-1691, 1996. 2. Li, Z., Jiang, H., Xie, W., Zhang, Z., Smrcka, A. V., Wu, D. Roles of PLC-beta-2 and -beta-3 and PI3K-gamma in chemoattractant-mediated signal transduction. Science 287: 1046-1049, 2000. 3. Mao, G. F., Vaidyula, V. R., Kunapuli, S. P., Rao, A. K. Lineage-specific defect in gene expression in human platelet phospholipase C-beta-2 deficiency. Blood 99: 905-911, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	95147333
NCBI GeneID	5330
NCBI Accession #	NP_004564.2
NCBI GenBank Nucleotide #	NM_004573.2
UniProt Accession #	Q00722; A8K6J2
Molecular Weight	134,024 Da
NCBI Official Full Name	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-2
NCBI Official Synonym Full Names	phospholipase C, beta 2
NCBI Official Symbol	PLCB2
NCBI Protein Information	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-2; PLC-beta-2; phospholipase C-beta-2; phosphoinositide phospholipase C-beta-2; 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase beta-2
UniProt Protein Name	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-2
UniProt Gene Name	PLCB2
UniProt Synonym Gene Names	PLC-beta-2
UniProt Entry Name	PLCB2_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.