

Rabbit anti-Human PLCD3 Polyclonal Antibody | anti-PLCD3 antibody

Anti-PLCD3 Antibody Picoband

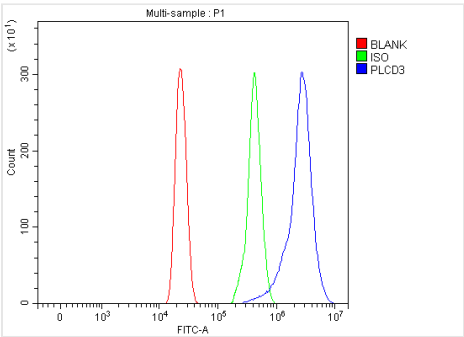
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127403	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

PLCD3; Polyclonal Antibody; Anti-PLCD3 Antibody Picoband; AP-2 complex subunit beta; PR/SET domain 5; PR domain zinc finger protein 5; PR domain-containing protein 5; PRDM5; PFM2; anti-PLCD3 antibody

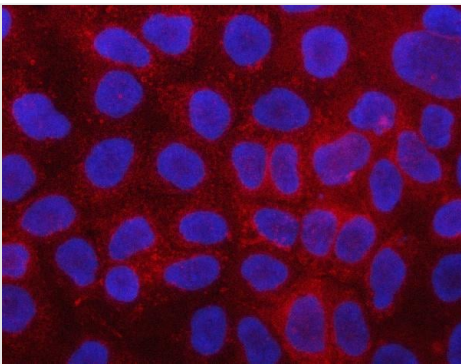
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Widely expressed with highest levels in colon and ovary. Tends to be silenced in breast, colorectal, gastric and liver cancer tissues.
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-PLCD3 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human PLCD3 recombinant protein (Position: R10-Q702).
Subcellular Localization	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	Sequence-specific DNA-binding transcription factor. Represses transcription at least in part by recruitment of the histone methyltransferase EHMT2/G9A and histone deacetylases such as HDAC1. Regulates hematopoiesis-associated protein-coding and microRNA (miRNA) genes. May regulate the expression of proteins involved in extracellular matrix development and maintenance, including fibrillar collagens, such as COL4A1 and COL11A1, connective tissue components, such as HAPLN1, and molecules regulating cell migration and adhesion, including EDIL3 and TGFB2. May cause G2/M arrest and apoptosis in cancer cells.
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.



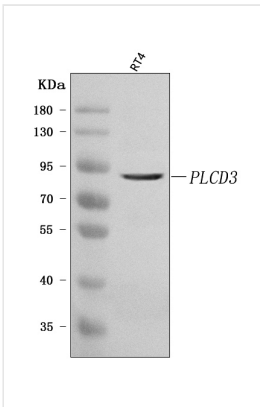
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HL-60 cells using anti-PLCD3 antibody (AAA127403).Overlay histogram showing HL-60 cells stained with AAA127403 (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-PLCD3 Antibody (AAA127403, 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.



IF (Immunofluorescence)

Figure 2. IF analysis of PLCD3 using anti-PLCD3 antibody (AAA127403).PLCD3 was detected in an immunocytochemical section of CACO2 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-PLCD3 Antibody (AAA127403) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of PLCD3 using anti-PLCD3 antibody (AAA127403).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 RT-4 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-PLCD3 antigen affinity purified polyclonal antibody (#AAA127403) 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 PLCD3 at approximately 94 kDa. The expected band size for PLCD3 is at 110,85-90 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PLCD3 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-PLCD3 antibody	Primary Antibodies; Cell Adhesion Proteins; ECM Proteins; Neuroscience
References	1. Ghosh, S., Pawelczyk, T., Lowenstein, J. M. Phospholipase C isoforms delta-1 and delta-3 from human fibroblasts: high-yield expression in Escherichia coli, simple purification, and properties. Protein Expr. Purif. 9: 262-278, 1997. 2. Kim, H., Suh, P. G., Ryu, S. H., Park, S. H. Assignment of the human PLC-delta-3 gene (PLCD3) to human chromosome band 17q21 by fluorescence in situ hybridization. Cytogenet. Cell Genet. 87: 209-210, 1999.

NCBI AND UNIPROT INFORMATION

NCBI GI #	19115964
NCBI GeneID	113026
NCBI Accession #	NP_588614
NCBI GenBank Nucleotide #	NM_133373
UniProt Accession #	Q8N3E9; Q8TEC1; Q8TF37; Q96FL6
Molecular Weight	89,258 Da
NCBI Official Full Name	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-3
NCBI Official Synonym Full Names	phospholipase C, delta 3
NCBI Official Symbol	PLCD3
NCBI Official Synonym Symbols	PLC-delta-3
NCBI Protein Information	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-3; 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase delta-3; PLC delta3; phosphoinositide phospholipase C-delta-3
UniProt Protein Name	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-3
UniProt Gene Name	PLCD3
UniProt Synonym Gene Names	KIAA1964; PLC-delta-3
UniProt Entry Name	PLCD3_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/plcd3-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127403>