

Rabbit PLS3 Polyclonal Antibody | anti-PLS3 antibody

Anti-PLS3 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127215	Rabbit	Human, Mouse, Rat	Western Blot, Immunofluorescence, Immunocytochemistry, Immunoprecipitation, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

PLS3; Polyclonal Antibody; Anti-PLS3 Antibody Picoband; anti-PLS3 antibody

PRODUCT SPECIFICATIONS

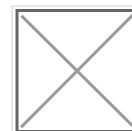
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PLS3 antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), IP (Immunoprecipitation), FCM/FACS (Flow Cytometry), ELISA
Immunogen	E coli-derived human PLS3 recombinant protein (Position: M1-D580). Human PLS3 shares 99% and 97.9% amino acid (aa) sequence identity with mouse and rat PLS3, 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



IP (Immunoprecipitation)

Figure 5. Immunoprecipitating PLS3 in HeLa whole cell lysate .Western blot analysis of PLS3 using anti-PLS3 antibody (AAA127215).Lane 1: HeLa whole cell lysates (30ug)Lane 2: Rabbit control IgG instead of anti-PLS3 antibody in HeLa whole cell lysate.Lane 3: anti-PLS3 antibody (2ug) + HeLa whole cell lysate (500ug)After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-PLS3 antigen affinity purified polyclonal antibody (AAA127215) at a dilution of 0.5ug/mL and probed with a goat anti-rabbit IgG-HRP secondary antibody . The signal is developed using ECL Plus Western Blotting Substrate . A specific band was detected for PLS3 at approximately 71 kDa. The expected band size for PLS3 is at 71 kDa.



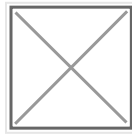
WB (Western Blot)

Figure 4. Western blot analysis of PLS3 using anti-PLS3 antibody (AAA127215).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 HeLa whole cell lysates,Lane 2: human A549 whole cell lysates,Lane 3: human SiHa whole cell lysates,Lane 4: human PC-3 whole cell lysates,Lane 5: mouse pancreas 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-PLS3 antigen affinity purified polyclonal antibody (AAA127215) at 0.25ug/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-DyLight 647 Conjugated secondary antibody at a dilution of 1:2000 for 1.5 hour at RT. A specific band was detected for PLS3 at approximately 71 kDa. The expected band size for PLS3 is at 71 kDa.



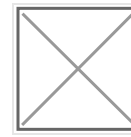
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of PC-3 cells using anti-PLS3 antibody (AAA127215). Overlay histogram showing PC-3 cells stained with AAA127215 (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-PLS3 Antibody (AAA127215, 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 PLS3 using anti-PLS3 antibody (AAA127215). 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 Hela whole cell lysates, Lane 2: human A549 whole cell lysates, Lane 3: human Siha whole cell lysates, Lane 4: human PC-3 whole cell lysates, Lane 5: rat stomach tissue lysates, Lane 6: rat kidney tissue lysates, Lane 7: mouse stomach tissue lysates, Lane 8: mouse kidney 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-PLS3 antigen affinity purified polyclonal antibody (#AAA127215) at 0.25ug/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 PLS3 at approximately 71 kDa. The expected band size for PLS3 is at 71,69,66 kDa.



IF (Immunofluorescence)

Figure 2. IF analysis of PLS3 using anti-PLS3 antibody (AAA127215). PLS3 was detected in an immunocytochemical section of A549 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-PLS3 Antibody (AAA127215) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG 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.

ADDITIONAL INFORMATION

Related Product Information for anti-PLS3 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-PLS3 antibody	Primary Antibodies
References	1. Ackermann, B., Krober, S., Torres-Benito, L., Borgmann, A., Peters, M., Barkoote, S. M. H., Tejero, R., Jakubik, M., Schreml, J., Milbradt, J., Wunderlich, T. F., Riessland, M., Tabares, L., Wirth, B. Platin 3 ameliorates spinal muscular atrophy via delayed axon pruning and improves neuromuscular junction functionality. Hum. Molec. Genet. 22: 1328-1347, 2013. 2. Lin, C.-S., Aebersold, R. H., Kent, S. B., Varma, M., Leavitt, J. Molecular cloning and characterization of platin, a human leukocyte protein expressed in transformed human fibroblasts. Molec. Cell. Biol. 8: 4659-4668, 1988. 3. Lin, C.-S., Aebersold, R. H., Leavitt, J. Correction of the N-terminal sequences of the human platin isoforms by using anchored polymerase chain reaction: identification of a potential calcium-binding domain. Molec. Cell. Biol. 10: 1818-1821, 1990.

NCBI AND UNIPROT INFORMATION

NCBI GI #	226694201
NCBI GeneID	5358
UniProt Accession #	P13797 ; Q86YI6 ; A8K579 ; B1AQ09 ; B4DGB4 ; B7Z6M1
Molecular Weight	630
NCBI Official Full Name	Platin-3

NCBI Official Synonym Full Names	plastin 3
NCBI Official Symbol	PLS3
NCBI Official Synonym Symbols	BMND18; T-plastin
NCBI Protein Information	plastin-3; T fimbrin; T plastin
UniProt Protein Name	Plastin-3
UniProt Gene Name	PLS3
UniProt Entry Name	PLST_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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