

Rabbit PLS1 Polyclonal Antibody | anti-PLS1 antibody

Anti-PLS1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19893	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

PLS1; Polyclonal Antibody; Anti-PLS1 Antibody Picoband; anti-PLS1 antibody

PRODUCT SPECIFICATIONS

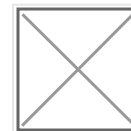
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PLS1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.25-0.5ug/ml, Human, Mouse, Rat IHC: 2-5ug/ml, Human ICC/IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human PLS1 recombinant protein (Position: E14-L581). Human PLS1 shares 93.8% amino acid (aa) sequence identity with mouse PLS1.
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



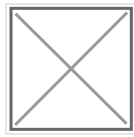
WB (Western Blot)

Figure 7. Western blot analysis of PLS1 using anti-PLS1 antibody (AAA19893). 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 A431 whole cell lysates, Lane 2: human RT4 whole cell lysates, Lane 3: human A549 whole cell lysates, Lane 4: human Caco-2 whole cell lysates, Lane 5: mouse small intestine tissue lysates, Lane 6: rat stomach 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-PLS1 antigen affinity purified polyclonal antibody (AAA19893) 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-DyLight 647 Conjugated secondary antibody at a dilution of 1:2000 for 1.5 hour at RT. A specific band was detected for PLS1 at approximately 70 kDa. The expected band size for PLS1 is at 70 kDa.



FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of RT4 cells using anti-PLS1 antibody (AAA19893). Overlay histogram showing RT4 cells stained with AAA19893 (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-PLS1 Antibody (AAA19893, 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 5. IF analysis of PLS1 using anti-PLS1 antibody (AAA19893). PLS1 was detected in an immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PLS1 Antibody (AAA19893) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PLS1 Antibody (AAA19893) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PLS1 Antibody (AAA19893) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Lane 2: human RT4 whole cell lysates, Lane 3: human A549 whole cell lysates, Lane 4: human Caco-2 whole cell lysates, Lane 5: rat small intestine tissue lysates, Lane 6: rat stomach tissue lysates, Lane 7: mouse small intestine tissue lysates, Lane 8: mouse stomach 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-PLS1 antigen affinity purified polyclonal antibody (#AAA19893) 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 PLS1 at approximately 70 kDa. The expected band size for PLS1 is at 70 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PLS1 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-PLS1 antibody	Primary Antibodies
References	1. Diaz-Horta, O., Bademci, G., Tokgoz-Yilmaz, S., Guo, S., Zafeer, F., Sineni, C. J., Duman, D., Farooq, A., Tekin, M. Novel variant pE269K confirms causative role of PLA1 mutations in autosomal dominant hearing loss. Clin. Genet. 96: 575-578, 2019. 2. Grimm-Gunter, E-M. S., Revenu, C., Ramos, S., Hurbain, I., Smyth, N., Ferrary, E., Louvard, D., Robine, S., Rivero, F. Plastin 1 binds to keratin and is required for terminal web assembly in the intestinal epithelium. Molec. Biol. Cell 20: 2549-2562, 2009. 3. Lin, C.-S., Shen, W., Chen, Z. P., Tu, Y.-H., Matsudaira, P. Identification of I-plastin, a human fimbrin isoform expressed in intestine and kidney. Molec. Cell. Biol. 14: 2457-2467, 1994.

NCBI AND UNIPROT INFORMATION

NCBI GI #	223718250
NCBI GeneID	5357
NCBI Accession #	NP_001138791.1
NCBI GenBank Nucleotide #	NM_001145319.1
UniProt Accession #	Q14651; Q8NEG6; A8K2Q1; D3DNG3
Molecular Weight	70,253 Da
NCBI Official Full Name	plastin-1
NCBI Official Synonym Full Names	plastin 1

NCBI Official Symbol	PLS1
NCBI Protein Information	plastin-1
UniProt Protein Name	Plastin-1
UniProt Gene Name	PLS1
UniProt Synonym Gene Names	I-plastin

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/pls1-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19893>