Rabbit Pancreatic Lipase/PNLIP Polyclonal Antibody | anti-PNLIP antibody

Anti-Pancreatic Lipase/PNLIP Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127264	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot**

PRODUCT SYNONYMS

Pancreatic Lipase/PNLIP; Polyclonal Antibody; Anti-Pancreatic Lipase/PNLIP 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-PNLIP antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
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-PNLIP antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human Pancreatic Lipase/PNLIP recombinant protein (Position: I36-D404). Human PNLIP shares 78.7% amino acid (aa) sequence identity with mouse and rat PNLIP.
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.

IMAGES



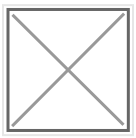
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U251 cells using anti-Pancreatic Lipase/PNLIP antibody (AAA127264).Overlay histogram showing U251 cells stained with AAA127264 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-Pancreatic Lipase/PNLIP Antibody (AAA127264, 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.



IF (Immunofluorescence)

Figure 2. IF analysis of Pancreatic Lipase/PNLIP using anti-Pancreatic Lipase/PNLIP antibody (AAA127264).Pancreatic Lipase/PNLIP was detected in an immunocytochemical section of U2OS 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-Pancreatic Lipase/PNLIP Antibody (AAA127264) 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.



WB (Western Blot)

Figure 1. Western blot analysis of Pancreatic Lipase/PNLIP using anti-Pancreatic Lipase/PNLIP antibody (AAA127264).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: rat pancreas tissue lysates,Lane 2: 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-Pancreatic Lipase/PNLIP antigen affinity purified polyclonal antibody (#AAA127264) 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 Pancreatic Lipase/PNLIP at approximately 51 kDa. The expected band size for Pancreatic Lipase/PNLIP is at 51 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PNLIP 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-PNLIP antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Behar, D. M., Basel-Vanagaite, L., Glaser, F., Kaplan, M., Tzur, S., Magal, N., Eidlitz-Markus, T., Haimi-Cohen, Y., Sarig, G., Bormans, C., Shohat, M., Zeharia, A. Identification of a novel mutation in the PNLIP gene in two brothers with congenital pancreatic lipase deficiency. J. Lipid Res. 55: 307-312, 2014. 2. Davis, R. C., Diep, A., Hunziker, W., Klisak, I., Mohandas, T., Schotz, M. C., Sparkes, R. S., Lusis, A. J. Assignment of human pancreatic lipase gene (PNLIP) to chromosome 10q24-q26. Genomics 11: 1164-1166, 1991.3. Lowe, M. E., Rosenblum, J. L., Strauss, A. W. Cloning and characterization of human pancreatic lipase cDNA. J. Biol. Chem. 264: 20042-20048, 1989.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1304379
NCBI GeneID	5406
UniProt Accession #	P16233; Q5VSQ2
Molecular Weight	51,157 Da
NCBI Official Full Name	pancreatic lipase
NCBI Official Synonym Full Names	pancreatic lipase

NCBI Official Symbol	PNLIP
NCBI Official Synonym Symbols	PL; PTL; PNLIPD
NCBI Protein Information	pancreatic triacylglycerol lipase; triacylglycerol acylhydrolase
UniProt Protein Name	Pancreatic triacylglycerol lipase
UniProt Gene Name	**PNLIP**
UniProt Synonym Gene Names	PL; PTL
UniProt Entry Name	LIPP_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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