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antibody and ELISA experts

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Anti-PELI1 Antibody Picoband®

Catalog Number: A05921-1

About PELI1

Enables ubiquitin-ubiquitin ligase activity. Involved in several processes, including negative regulation of TORC1 signaling; negative regulation of necroptotic process; and protein polyubiquitination. Is active in site of double-strand break. Implicated in colorectal cancer.

Overview

Product Name	Anti-PELI1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PELI1 Antibody Picoband® catalog # A05921-1. Tested in WB, IHC, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat. 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.
Application	Flow Cytometry, IP, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q96FA3

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human PELI1.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human, Mouse, Rat Immunoprecipitation, 0.5-2 ug/ml, Human Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human, Rat

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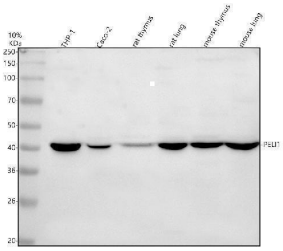
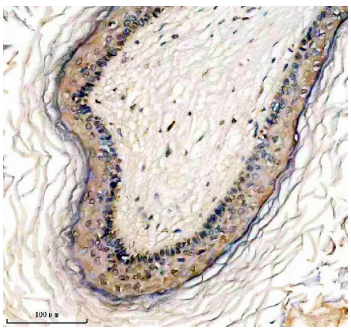
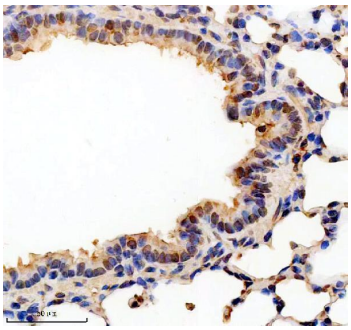
Anti-PELI1 Antibody Picoband® (A05921-1) Images



Western blot analysis of PELI1 using anti-PELI1 antibody (A05921-1). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human THP-1 whole cell lysates, Lane 2: human Caco-2 whole cell lysates, Lane 3: rat thymus tissue lysates, Lane 4: rat lung tissue lysates, Lane 5: mouse thymus tissue lysates, Lane 6: mouse lung 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-PELI1 antigen affinity purified polyclonal antibody (A05921-1) at 0.5 ug/mL overnight at 4°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 ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for PELI1 at approximately 40 kDa. The expected band size for PELI1 is at 46 kDa.



IHC analysis of PELI1 using anti-PELI1 antibody (A05921-1). PELI1 was detected in a paraffin-embedded section of human skin tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-PELI1 Antibody (A05921-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of PELI1 using anti-PELI1 antibody (A05921-1). PELI1 was detected in a paraffin-embedded section of rat lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-PELI1 Antibody (A05921-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

IHC analysis of PELI1 using anti-PELI1 antibody (A05921-1). PELI1 was detected in a paraffin-embedded section of mouse lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue

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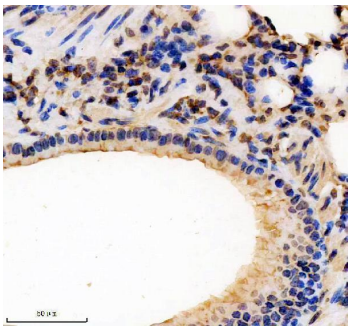
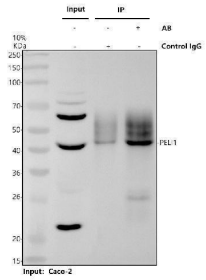
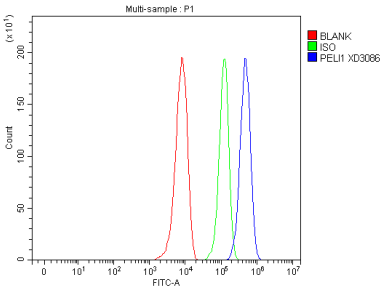


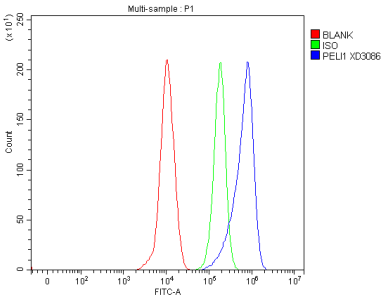
section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-PELI1 Antibody (A05921-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



Immunoprecipitating PELI1 in Caco-2 whole cell lysate. Western blot analysis of PELI1 using anti-PELI1 antibody (A05921-1). Lane 1: Caco-2 whole cell lysates (30ug), Lane 2: Rabbit control IgG instead of anti-PELI1 antibody in Caco-2 whole cell lysate, Lane 3: anti-PELI1 antibody (2ug) + Caco-2 whole cell lysate (500ug). After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-PELI1 antigen affinity purified polyclonal antibody (A05921-1) at a dilution of 0.5 ug/mL and probed with a mouse anti-rabbit IgG-HRP secondary antibody (Catalog # BM2007). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for PELI1 at approximately 40 kDa. The expected band size for PELI1 is at 46 kDa.



Flow Cytometry analysis of PC-12 cells using anti-PELI1 antibody (A05921-1). Overlay histogram showing PC-12 cells stained with A05921-1 (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-PELI1 Antibody (A05921-1, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



Flow Cytometry analysis of THP-1 cells using anti-PELI1 antibody (A05921-1). Overlay histogram showing THP-1 cells stained with A05921-1 (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-PELI1 Antibody (A05921-1, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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Anti-PELI1 Antibody

For Research Use Only. Not for use in diagnostic procedures.