

Anti-PI2/SERPINB1 Antibody Picoband™

Catalog Number: A04491-2

About SERPINB1

Leukocyte elastase inhibitor (LEI) also known as serpin B1 is a protein that in humans is encoded by the SERPINB1 gene. The protein encoded by this gene is a member of the serpin family of proteinase inhibitors. Members of this family maintain homeostasis by neutralizing overexpressed proteinase activity through their function as suicide substrates. This protein inhibits the neutrophil-derived proteinases neutrophil elastase, cathepsin G, and proteinase-3 and thus protects tissues from damage at inflammatory sites. Alternative splicing results in multiple transcript variants.

Overview

Product Name	Anti-PI2/SERPINB1 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-PI2/SERPINB1 Antibody Picoband™ catalog # A04491-2. Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human.
Application	ELISA, Flow Cytometry, IF, ICC, 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	P30740

Technical Details

Immunogen	E.coli-derived human PI2/SERPINB1 recombinant protein (Position: A52-R275).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.



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Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.25 - 0.5 µg/ml, Human Immunocytochemistry/Immunofluorescence, 5 µg/ml, Human Flow Cytometry, 1 - 3 µg/ 1 x 10 6 cells, Human Direct ELISA, 0.1 - 0.5 µg/ml, Human
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Anti-PI2/SERPINB1 Antibody Picoband™ (A04491-2) Images

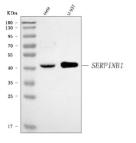


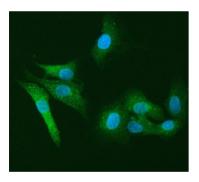
Figure 1. Western blot analysis of PI2/SERPINB1 using anti-PI2/SERPINB1 antibody (A04491-2).

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 U-937 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-PI2/SERPINB1 antigen affinity purified polyclonal antibody (Catalog # A04491-2) 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 Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for PI2/SERPINB1 at approximately 43 kDa. The expected band size for PI2/SERPINB1 is at 43 kDa.



PI2/SERPINB1 antibody (A04491-2).
PI2/SERPINB1 was detected in an immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-PI2/SERPINB1 Antibody (A04491-2) overnight at 4°C. DyLight® 488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence

Figure 2. IF analysis of PI2/SERPINB1 using anti-

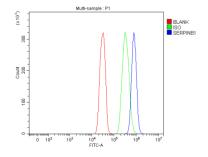


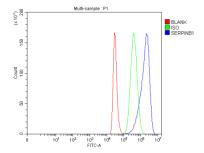
Figure 3. Flow Cytometry analysis of SiHa cells using anti-PI2/SERPINB1 antibody (A04491-2).

microscope and filter sets appropriate for the label used.

Overlay histogram showing SiHa cells stained with A04491-2 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PI2/SERPINB1 Antibody (A04491-2, 1 ug/1x 10^6 cells) for 30 min at 20°C. DyLight® 488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x 10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x 10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

Figure 4. Flow Cytometry analysis of THP-1 cells using anti-PI2/SERPINB1 antibody (A04491-2). Overlay histogram showing THP-1 cells stained with





A04491-2 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PI2/SERPINB1 Antibody (A04491-2, 1 ug/1x10 6 cells) for 30 min at 20 $^\circ$ C. DyLight 6 488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10 6 cells) was used as secondary antibody for 30 minutes at 20 $^\circ$ C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10 6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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