BOSTER
antibody and ELISA experts

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Anti-uPA Receptor/PLAUR Antibody Picoband™

Catalog Number: A00993-3

About PLAUR

PLAUR (PLASMINOGEN ACTIVATOR RECEPTOR, UROKINASE-TYPE), also known as UPAR or CD87, is multidomain glycoprotein tethered to the cell membrane with a glycosylphosphotidylinositol (GPI) anchor. PLAUR consists of three different domains of the Ly-6/uPAR/alpha-neurotoxin family. PLAUR is originally identified as a saturable binding site for urokinase on the cell surface. And the gene plays an important role in many normal as well as pathologic processes. The PLAUR gene is localized to 19q13.31. PLAUR is a part of the plasminogen activation system, which in the healthy body is involved in tissue reorganization events such as mammary gland involution and wound healing. PLAUR binds urokinase and thus restricts plasminogen activation to the immediate vicinity of the cell membrane. Thus it seems to be an important player in the regulation of this process. In human coronary artery vascular smooth muscle cells, UPA stimulates cell migration via a UPAR signaling complex containing TYK2 and phosphatidylinositol 3-kinase.

Overview

Product Name	Anti-uPA Receptor/PLAUR Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-uPA Receptor/PLAUR Antibody Picoband™ catalog # A00993-3. Tested in Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage Instructions	Store 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 freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q03405

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human uPA Receptor/PLAUR.
Predicted Reactive Species	Human
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG

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Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
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, 0.1-0.5ug/ml Flow Cytometry, 1-3ug/1x106 cells10^6 cells

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Anti-uPA Receptor/PLAUR Antibody Picoband™ (A00993-3) Images

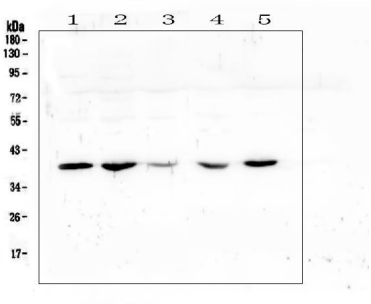

Figure 1. Western blot analysis of uPA Receptor using anti-uPA Receptor antibody (A00993-3).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: human placenta tissue lysate,
Lane 2: human U20S whole cell lysate,
Lane 3: human A431 whole cell lysate,
Lane 4: human Hela whole cell lysate,
Lane 5: human A549 whole cell lysate.
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-uPA Receptor antigen affinity purified polyclonal antibody (Catalog # A00993-3) 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 1:10000 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 uPA Receptor at approximately 39KD. The expected band size for uPA Receptor is at 37KD.

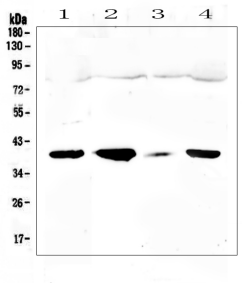

Figure 2. Western blot analysis of uPA Receptor using anti-uPA Receptor antibody (A00993-3).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: rat testis tissue lysate,
Lane 2: mouse small intestine tissue lysate,
Lane 3: mouse kidney tissue lysate,
Lane 4: mouse testis tissue lysate.
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-uPA Receptor antigen affinity purified polyclonal antibody (Catalog # A00993-3) 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 1:10000 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 uPA Receptor at approximately 39KD. The expected band size for uPA Receptor is at 37KD.

Figure 3. Flow Cytometry analysis of H-PBMC cells using anti-uPA Receptor antibody (A00993-3).

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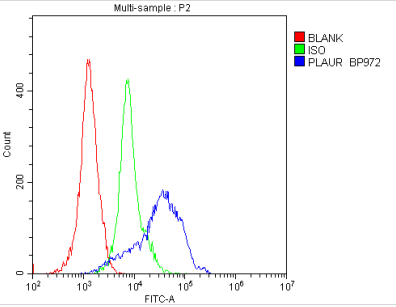

Overlay histogram showing H-PBMC cells stained with A00993-3 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-uPA Receptor Antibody (A00993-3,1ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

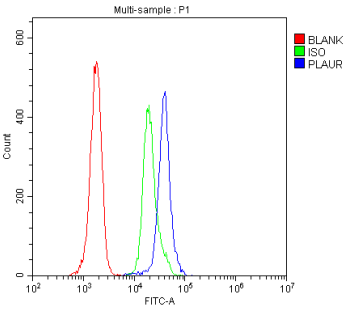

Figure 4. Flow Cytometry analysis of H-PBMC cells using anti-uPA Receptor antibody (A00993-3).
Overlay histogram showing H-PBMC cells stained with A00993-3 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-uPA Receptor Antibody (A00993-3,1ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.