

Anti-RICTOR Antibody Picoband™

Catalog Number: A03195-1

About RICTOR

Rapamycin-insensitive companion of mTOR is a protein that in human is encoded by the RICTOR gene. This gene is mapped to 5p13.1. RICTOR and MTOR are components of a protein complex that integrates nutrient- and growth factor-derived signals to regulate cell growth.

Overview

Product Name	Anti-RICTOR Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-RICTOR Antibody Picoband™ catalog # A03195-1. Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human.
Application	ELISA, Flow Cytometry, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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	Q6R327

Technical Details

Immunogen	E.coli-derived human RICTOR recombinant protein (Position: E23-H264).
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 IHC(P) and 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 ug/ml.
Purification	Immunogen affinity purified.
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, 0.25-0.5ug/ml, Human
Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human
Immunocytochemistry/Immunofluorescence, 2ug/ml, Human
Flow Cytometry, 1-3ug/1x10⁶ cells, Human
Direct ELISA, 0.1-0.5ug/ml, Human

Anti-RICTOR Antibody Picoband™ (A03195-1) Images

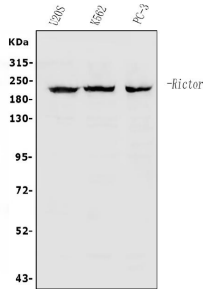


Figure 1. Western blot analysis of RICTOR using anti-RICTOR antibody (A03195-1).

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 30ug of sample under reducing conditions.

Lane 1: human U20S whole cell lysates,

Lane 2: human K562 whole cell lysates,

Lane 3: human PC-3 whole cell lysates.

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-RICTOR antigen affinity purified polyclonal antibody (Catalog # A03195-1) 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 Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for RICTOR at approximately 230KD. The expected band size for RICTOR is at 192KD.

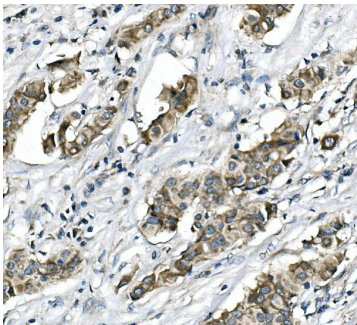


Figure 2. IHC analysis of RICTOR using anti-RICTOR antibody (A03195-1).

RICTOR was detected in paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-RICTOR Antibody (A03195-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

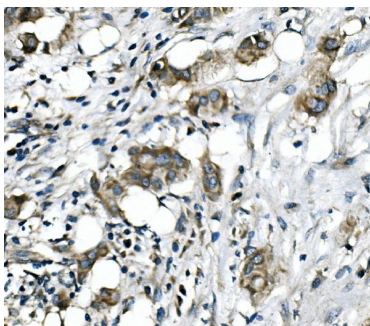
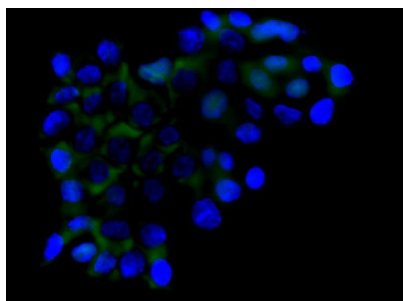


Figure 3. IHC analysis of RICTOR using anti-RICTOR antibody (A03195-1).

RICTOR was detected in paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-RICTOR Antibody (A03195-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

Figure 4. IF analysis of RICTOR using anti-RICTOR antibody (A03195-1).

RICTOR was detected in immunocytochemical section of



A431 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 2ug/mL rabbit anti-RICTOR Antibody (A03195-1) overnight at 4°C. DyLight®488 conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

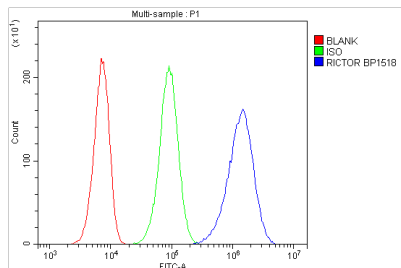


Figure 5. Flow Cytometry analysis of 293T cells using anti-RICTOR antibody (A03195-1). Overlay histogram showing 293T cells stained with A03195-1 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RICTOR Antibody (A03195-1, 1ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°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.

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