

## Anti-MANSC4 Antibody Picoband™

Catalog Number: A19343

### About MANSC4

MANSC4 is predicted to be integral component of membrane.

### Overview

Product Name	Anti-MANSC4 Antibody Picoband™
Reactive Species	Human, Monkey, Mouse, Rat
Description	Boster Bio Anti-MANSC4 Antibody Picoband™ catalog # A19343. Tested in ELISA, IHC, WB, Flow Cytometry applications. This antibody reacts with Human, Monkey, Mouse, Rat.
Application	ELISA, Flow Cytometry, IHC, WB
Clonality	Polyclonal 1B9
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
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	A6NHS7

### Technical Details

Immunogen	E.coli-derived human MANSC4 recombinant protein (Position: R36-R140). Human MANSC4 shares 83% amino acid (aa) sequence identity with mouse MANSC4.
Predicted Reactive Species	Bovine, Canine, Chicken, Primate, Sheep, Xenopus, Zebrafish
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).
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/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, 0.25-0.5 µg/ml, Human, Monkey, Mouse, Rat

Immunohistochemistry, 2-5 µg/ml, Human

Flow Cytometry (Fixed), 1-3 µg/1x10<sup>6</sup> cells, Human

ELISA, 0.1-0.5 µg/ml, Human

## Anti-MANSC4 Antibody Picoband™ (A19343) Images

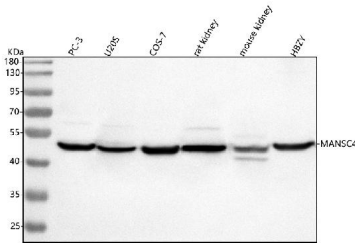


Figure 1. Western blot analysis of MANSC4 using anti-MANSC4 antibody (A19343). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.  
Lane 1: human PC-3 whole cell lysates,  
Lane 2: human U2OS whole cell lysates,  
Lane 3: monkey COS-7 whole cell lysates,  
Lane 4: rat kidney tissue lysates,  
Lane 5: mouse kidney tissue lysates.  
Lane 6: mouse HBZY 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-MANSC4 antigen affinity purified polyclonal antibody (Catalog # A19343) 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 MANSC4 at approximately 45 kDa. The expected band size for MANSC4 is at 38 kDa.

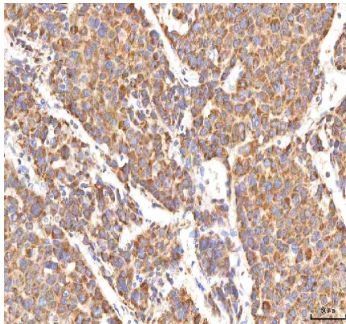


Figure 2. IHC analysis of MANSC4 using anti-MANSC4 antibody (A19343). MANSC4 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-MANSC4 Antibody (A19343) 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.

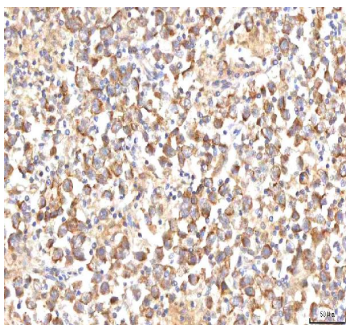
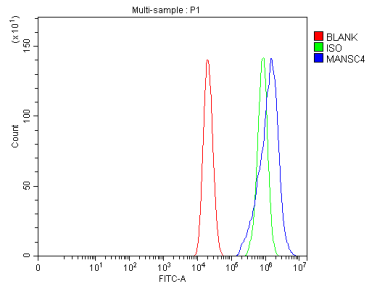
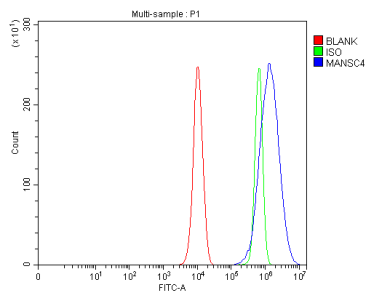


Figure 3. IHC analysis of MANSC4 using anti-MANSC4 antibody (A19343). MANSC4 was detected in a paraffin-embedded section of human testicular seminoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-MANSC4 Antibody (A19343) 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.



**Figure 4.** Flow Cytometry analysis of Caco-2 cells using anti-MANSC4 antibody (A19343). Overlay histogram showing Caco-2 cells stained with A19343 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-MANSC4 Antibody (A19343, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



**Figure 5.** Flow Cytometry analysis of PC-3 cells using anti-MANSC4 antibody (A19343). Overlay histogram showing PC-3 cells stained with A19343 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-MANSC4 Antibody (A19343, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

## Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-MANSC4 Antibody