

Anti-MUC4 Antibody Picoband™

Catalog Number: PB9147

About MUC4

Mucin 4, also known as MUC4, is a mucin protein that in humans is encoded by the MUC4 gene. Like other mucins, Mucin 4 is a high-molecular weight glycoprotein. It is mapped to 3q29. In normal functioning, Mucin 4 is known to play anti-adhesive roles in the body, such as in lubricating the reproductive lining. It is found in the respiratory tract, particularly in the trachea and lung and the digestive tract, in the esophagus and colon, as well as in the visual and auditory systems. Mucin 4 serves to protect and lubricate the epithelium, which facilitates transport and traps foreign particles. It is found to be overexpressed during the luteal phase of menstruation. Mucin 4 may also have a role in fetal morphogenic development.

Overview

Product Name	Anti-MUC4 Antibody Picoband™
Reactive Species	Human, Rat
Description	Boster Bio Anti-MUC4 Antibody Picoband™ catalog # PB9147. Tested in WB applications. This antibody reacts with Human, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	Q99102

Technical Details

Immunogen	E.coli-derived human MUC4 recombinant protein (Position: M1249-D1444). Human MUC4 shares 69% and 36% amino acid (aa) sequences identity with mouse and rat MUC4, respectively.
Predicted Reactive Species	Bovine, Horse, Monkey, Rabbit
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
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.



BOSTER BIOLOGICAL TECHNOLOGY 3942 B Valley Ave, Pleasanton, CA 94566

888-466-3604 | support@bosterbio.com | www.bosterbio.com

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, 0.1-0.5ug/ml, Rat, Human



Anti-MUC4 Antibody Picoband™ (PB9147) Images

250KD - ___

130KD -

100KD-

70KD-

55KD-

Figure 1. Western blot analysis of MUC4 using anti-MUC4 antibody (PB9147).

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: rat PC-12 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-MUC4 antigen affinity purified polyclonal antibody (Catalog # PB9147) 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 MUC4 at approximately 234 kDa. The expected band size for MUC4 is at 232 kDa.

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