

Anti-MUC3/MUC3A/MUC3B Antibody Picoband®

Catalog Number: PB9955

About MUC3B

MUC3 consists of two genes, MUC3A and MUC3B, each encoding membrane-bound mucins possessing 2 epidermal growth factor-like domains. The MUC3 gene is mapped to chromosome 7. It was shown that synthetic peptide-mediated upregulation of MUC3 dramatically inhibited adherence of enteropathogenic *E. coli* or enterohemorrhage *E. coli* serotype O157:H7 to HT-29 human intestinal epithelial cells. Peptide stimulation altered expression of a number of transcription factors, including upregulation of SP1, CREB1, and CDX2. These transcription factors bound to consensus sites in the MUC3 promoter upon peptide stimulation and likely mediated MUC3 upregulation.

Overview

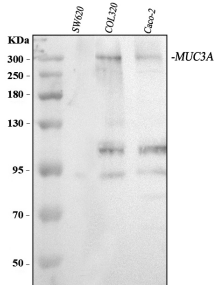
Product Name	Anti-MUC3/MUC3A/MUC3B Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-MUC3/MUC3A/MUC3B Antibody Picoband® catalog # PB9955. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	Q9H195

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human MUC3.
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.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human

Anti-MUC3/MUC3A/MUC3B Antibody Picoband® (PB9955) Images



Western blot analysis of MUC3 using anti-MUC3 antibody (PB9955). 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 SW620 whole cell lysates, Lane 2: human COL320 whole cell lysates, Lane 3: human CACO-2 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-MUC3 antigen affinity purified polyclonal antibody (Catalog # PB9955) 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 MUC3 at approximately 345 kDa. The expected band size for MUC3 is at 345 kDa.

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