

Anti-Matrilin-4/MATN4 Antibody Picoband®

Catalog Number: A11103-1

About MATN4

This gene encodes a member of von Willebrand factor A domain-containing protein family. The proteins of this family are thought to be involved in the formation of filamentous networks in the extracellular matrices of various tissues. This family member is thought to play a role in reorganizing and regenerating the corneal matrix in granular and lattice type I dystrophies. It may also be involved in wound healing in the dentin-pulp complex. Alternative splicing results in multiple transcript variants.

Overview

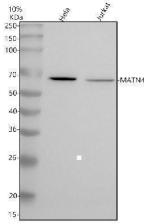
Product Name	Anti-Matrilin-4/MATN4 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Matrilin-4/MATN4 Antibody Picoband® catalog # A11103-1. Tested in WB, Flow Cytometry, ELISA applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that 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	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
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	O95460

Technical Details

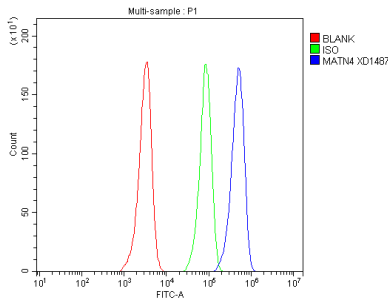
Immunogen	E.coli-derived human Matrilin-4/MATN4 recombinant protein (Position: E191-Q590). Human Matrilin-4/MATN4 shares 90% amino acid (aa) sequence identity with mouse Matrilin-4/MATN4.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
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, 0.25-0.5 ug/ml, Human

Flow Cytometry (Fixed), 1-3 ug/1x10⁶ cells, Human
ELISA, 0.1-0.5 ug/ml

Anti-Matrilin-4/MATN4 Antibody Picoband® (A11103-1) Images



Western blot analysis of Matrilin-4/MATN4 using anti-Matrilin-4/MATN4 antibody (A11103-1). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HeLa whole cell lysates, Lane 2: human Jurkat 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-Matrilin-4/MATN4 antigen affinity purified polyclonal antibody (A11103-1) 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 ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for Matrilin-4/MATN4 at approximately 68 kDa. The expected band size for Matrilin-4/MATN4 is at 68 kDa.



Flow Cytometry analysis of HEL cells using anti-Matrilin-4/MATN4 antibody (A11103-1). Overlay histogram showing HEL cells stained with A11103-1 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-Matrilin-4/MATN4 Antibody (A11103-1, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight 488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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Anti-Matrilin-4/MATN4 Antibody

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