BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Ceacam1 Antibody Picoband®

Catalog Number: A00923-3

About Ceacam1

Carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein) (CEACAM1) also known as CD66a (Cluster of Differentiation 66a), is a human glycoprotein, and a member of the carcinoembryonic antigen (CEA) gene family. CEACAM1 (carcinoembryonic antigen-related cell adhesion molecule 1) is thought to be a member of the immunoglobulin superfamily and is known as an epithelial tumor suppressor and an angiogenic growth factor. It has also been linked to the actin-based cytoskeleton. CEACAM1 is also known as a cellular receptor for a number of human mucosa pathogenic bacteria. The loss of activity of CEACAM1 has been related to the development of colorectal cancer.

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Overview

Product Name	Anti-Ceacam1 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Ceacam1 Antibody Picoband® catalog # A00923-3. Tested in WB, ICC/IF, FCM, ELISA applications. This antibody reacts with Mouse, Rat. 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, IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
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	P31809

Technical Details

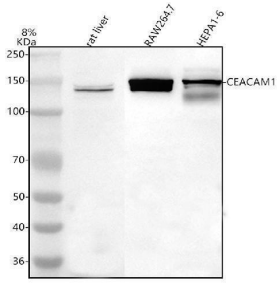
Immunogen	E.coli-derived mouse Ceacam1 recombinant protein (Position: A34-D382). Mouse Ceacam1 shares 55.5% and 68.8% amino acid (aa) sequence identity with human and rat Ceacam1, respectively.

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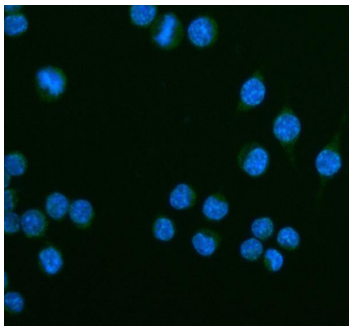
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 ug/ml, Mouse Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Mouse ELISA, 0.1-0.5 ug/ml, - Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells.

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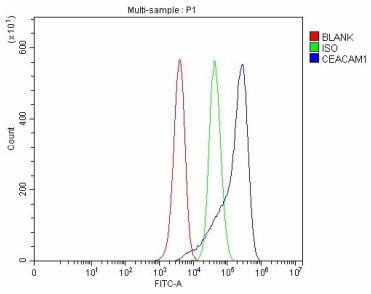
Anti-Ceacam1 Antibody Picoband® (A00923-3) Images



Western blot analysis of CEACAM1 using anti-CEACAM1 antibody (A00923-3). 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 liver tissue lysates, Lane 2: mouse Raw264.7 whole cell lysates, Lane 3: mouse Hepa1-6 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-CEACAM1 antigen affinity purified polyclonal antibody (Catalog # A00923-3) 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 CEACAM1 at approximately 150 kDa. The expected band size for CEACAM1 is at 57,50,37,30 kDa.



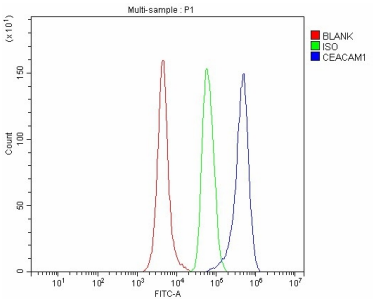
IF analysis of CEACAM1 using anti-CEACAM1 antibody (A00923-3). CEACAM1 was detected in an immunocytochemical section of RAW264.7 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-CEACAM1 Antibody (A00923-3) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 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.



Flow Cytometry analysis of HEPA1-6 cells using anti-CEACAM1 antibody (A00923-3). Overlay histogram showing HEPA1-6 cells stained with A00923-3 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-CEACAM1 Antibody (A00923-3, 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.

Flow Cytometry analysis of RAW264.7 cells using anti-CEACAM1 antibody (A00923-3). Overlay histogram showing RAW264.7 cells stained with A00923-3 (Blue line). The cells

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were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-CEACAM1 Antibody (A00923-3, 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.

Anti-Ceacam1 Antibody

For Research Use Only. Not for use in diagnostic procedures.