BOSTER BIOLOGICAL TECHNOLOGY
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Anti-MED28 Antibody Picoband®

Catalog Number: A08611-2

About MED28

Mediator of RNA polymerase II transcription subunit 28 is an enzyme that in humans is encoded by the MED28 gene. MED28 is a component of the Mediator complex, a coactivator involved in the regulated transcription of nearly all RNApolymerase II-dependent genes. Mediator functions as a bridge to convey information from gene-specific regulatoryproteins to the basal RNA polymerase.

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Overview

Product Name	Anti-MED28 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-MED28 Antibody Picoband® catalog # A08611-2. Tested in ELISA, Flow Cytometry, IP, ICC/IF, 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	ELISA, Flow Cytometry, IP, 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	Q9H204

Technical Details

Immunogen	E.coli-derived human MED28 recombinant protein (Position: M1-T178). Human MED28 shares 94.4% and 94.9% amino acid (aa) sequence identity with mouse and rat MED28, respectively.
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.

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Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human Immunoprecipitation, 0.5-2 ug/ml, Human Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human 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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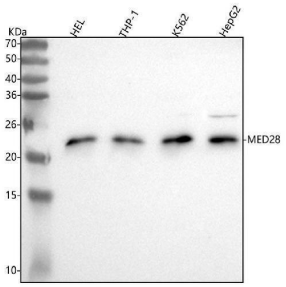
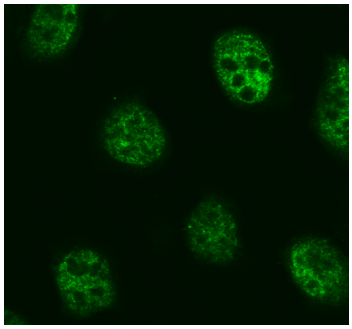
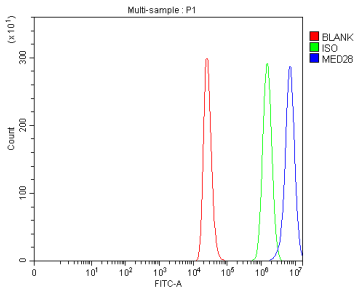
Anti-MED28 Antibody Picoband® (A08611-2) Images



Western blot analysis of MED28 using anti-MED28 antibody (A08611-2). 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 HEL whole cell lysates, Lane 2: human THP-1 whole cell lysates, Lane 3: human K562 whole cell lysates, Lane 4: human HepG2 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-MED28 antigen affinity purified polyclonal antibody (Catalog # A08611-2) 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 MED28 at approximately 24 kDa. The expected band size for MED28 is at 20 kDa.



IF analysis of MED28 using anti-MED28 antibody (A08611-2). MED28 was detected in an immunocytochemical section of U2OS 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-MED28 Antibody (A08611-2) overnight at 4°C. Fluoro488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry analysis of THP-1 cells using anti-MED28 antibody (A08611-2). Overlay histogram showing THP-1 cells stained with A08611-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MED28 Antibody (A08611-2, 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 (Red line) was also used as a control.

Immunoprecipitating MED28 in HepG2 whole cell lysate. Western blot analysis of MED28 using anti-MED28 antibody (A08611-2); Lane 1: HepG2 whole cell lysates (30ug); Lane

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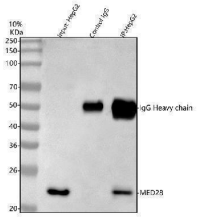

2: Rabbit control IgG instead of anti-MED28 antibody in HepG2 whole cell lysate; Lane 3: anti-MED28 antibody (2ug) + HepG2 whole cell lysate (500ug). After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-MED28 antigen affinity purified polyclonal antibody (A08611-2) at a dilution of 0.5 ug/mL and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1196-200). A specific band was detected for MED28 at approximately 24 kDa. The expected band size for MED28 is at 20 kDa.

Anti-MED28 Antibody

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