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BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Mad2L1 Antibody Picoband™

Catalog Number: PB9282

About MAD2L1

Mitotic spindle assembly checkpoint protein MAD2A is a protein that in humans is encoded by the MAD2L1 gene. This gene belongs to the MAD2 family. It is mapped to 4q27. MAD2L1 is a component of the mitotic spindle assembly checkpoint that prevents the onset of anaphase until all chromosomes are properly aligned at the metaphase plate. The protein has two highly different native conformations, an inactive open conformation that cannot bind CDC20 and that predominates in cytosolic monomers, and an active closed conformation. It is required for the execution of the mitotic checkpoint which monitors the process of kinetochore-spindle attachment.

Overview

Product Name	Anti-Mad2L1 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-Mad2L1 Antibody Picoband™ catalog # PB9282. Tested in Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human.
Application	Flow Cytometry, IF, ICC, 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	Q13257

Technical Details

Immunogen	E.coli-derived human Mad2L1 recombinant protein (Position: A2-D205). Human Mad2L1 shares 94% amino acid (aa) sequence identity with mouse Mad2L1.
Predicted Reactive Species	Bovine, Canine, Chicken, Monkey, Rabbit
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.
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.

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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, Human Immunocytochemistry/Immunofluorescence, 2ug/ml, Human Flow Cytometry, 1-3ug/1x10^6 cells, Human

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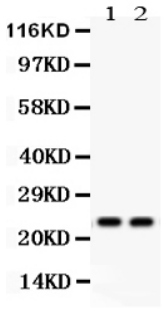
Anti-Mad2L1 Antibody Picoband™ (PB9282) Images



Anti-Mad2L1 Picoband antibody, PB9282, Western blotting
All lanes: Anti Mad2L1 (PB9282) at 0.5ug/ml
Lane 1: 293T Whole Cell Lysate at 40ug
Lane 2: COLO320 Whole Cell Lysate at 40ug
Predicted bind size: 23KD
Observed bind size: 23KD

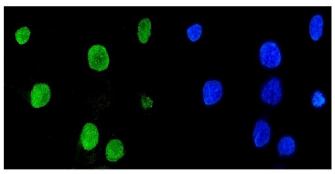


Figure 2. IF analysis of Mad2L1 using anti-Mad2L1 antibody (PB9282).
Mad2L1 was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2ug/mL rabbit anti-Mad2L1 Antibody (PB9282) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 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.

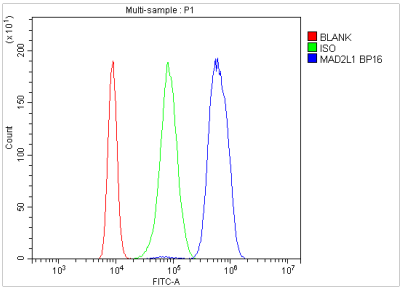


Figure 3. Flow Cytometry analysis of K562 cells using anti-Mad2L1 antibody (PB9282).
Overlay histogram showing K562 cells stained with PB9282 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Mad2L1 Antibody (PB9282,1ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.