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BOSTER BIOLOGICAL TECHNOLOGY
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Anti-MAD2L1 Antibody

Catalog Number: A00785

About MAD2L1

MAD2L1 (also called mitotic spindle assembly checkpoint protein, MAD2A, MAD2-like 1 and HsMAD2) is a component of the mitotic spindle assembly checkpoint monitors the process of kinetochore-spindle attachment and delays the onset of anaphase when this process is not complete. MAD2L1 inhibits the activity of the anaphase-promoting complex by sequestering CDC20 until all chromosomes are aligned at the metaphase plate. MAD2L1 is related to the MAD2L2 gene located on chromosome 1. A MAD2 pseudogene has been mapped to chromosome 14. This protein has a nuclear localization.

Overview

Product Name	Anti-MAD2L1 Antibody
Reactive Species	Human
Description	Boster Bio Anti-MAD2L1 Antibody (Catalog # A00785). Tested in ELISA, WB applications. This antibody reacts with Human.
Application	ELISA, IF, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q13257

Technical Details

Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to N-terminal region near amino acid residues 1-25 of Human MAD2L1 protein.
Predicted Reactive Species	African Green Monkey, Chimpanzee, Zebrafish
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid (sterile filtered)

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Concentration	1.19 mg/mL by UV absorbance at 280 nm
Purification	This affinity purified antibody is directed against human MAD2L1 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity with this protein from human, dog, macaque, chimpanzee and gecko based on 100% homology for the immunogen sequence. Cross-reactivity with MAD2L1 may occur from mouse and chicken sources, as only a two amino acid residue change is found within the immunogen sequence (90% positive by BLAST). Cross-reactivity with MAD2L1 homologues from other sources has not been determined.
Suggested Dilutions	ELISA: 1:2,000 - 1:10,000 IF Microscopy: User optimized WB: 1:500 - 1:2,000 This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a predominant band at ~ 24 kDa corresponding to full length protein by western blotting in the appropriate cell lysate or extract.

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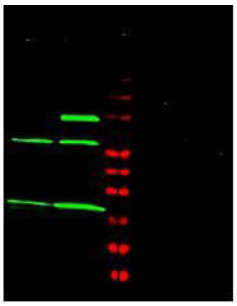
Anti-MAD2L1 Antibody (A00785) Images



Western blot using Boster's Affinity Purified anti-MAD2L1 antibody shows detection of a predominant band at ~24 kDa corresponding to MAD2L1 (arrowhead) present in Jurkat [lane 1] and HeLa [lane 2] whole cell lysates using the 800 nm channel (green). The identity of the higher molecular weight bands is unknown, although they may represent complexes of MAD2L1 with related binding proteins. Specific band reactivity is blocked when the antibody is pre-incubated with immunizing peptide (lanes 4 and 5 respectively) which completely blocks antibody staining. ~ 35µg of lysate was separated on a 4-20% Tris-glycine gel by SDS-PAGE and transferred onto nitrocellulose. After blocking the membrane was probed with the primary antibody diluted to 1:1200. Incubation was 2h at room temperature followed by washes and reaction with a 1:10,000 dilution of IRDye™800 conjugated Gt-a-Rabbit IgG [H&L] MXHu for 45 min at room temperature. Molecular weight markers were used for size comparison using the 700 nm channel (lane 3). IRDye™800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.

Anti-MAD2L1 Antibody

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