

Rabbit anti-Human MAD2L1 Polyclonal Antibody | anti-MAD2L1 antibody

MAD2L1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325457	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

MAD2L1; Polyclonal Antibody; MAD2L1 Antibody; HsMAD2; MAD 2; MAD2 like 1; MAD2 mitotic arrest deficient like 1; MAD2-like protein 1; Mad2l1; MD2L1_HUMAN; Mitotic arrest deficient 2-like protein 1; Mitotic spindle assembly checkpoint protein MAD2A; REV7; anti-MAD2L1 antibody

PRODUCT SPECIFICATIONS

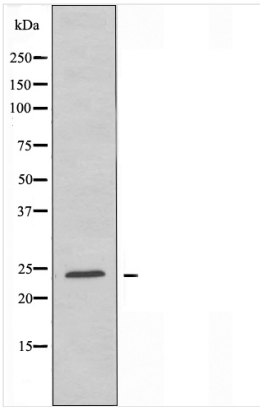
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	MAD2L1 antibody detects endogenous levels of total MAD2L1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	205
Applicable Applications for anti-MAD2L1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus. Chromosome > Centromere > Kinetochore. Cytoplasm. Cytoplasm > Cytoskeleton > Spindle Pole. Recruited by MAD1L1 to unattached kinetochores (Probable). Recruited to the nuclear pore complex by TPR during interphase. Recruited to kinetochores in late prometaphase after BUB1, CENPF, BUB1B and CENPE. Kinetochore association requires the presence of NEK2. Kinetochore association is repressed by UBD.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA325457 staining A549 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from A549 cells, using MAD2L1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-MAD2L1 antibody

Function: Component of the spindle-assembly checkpoint that prevents the onset of anaphase until all chromosomes are properly aligned at the metaphase plate. Required for the execution of the mitotic checkpoint which monitors the process of kinetochore-spindle attachment and inhibits the activity of the anaphase promoting complex by sequestering CDC20 until all chromosomes are aligned at the metaphase plate.

Subunit Structure: Monomer and homodimer. Heterotetramer with MAD1L1. Formation of a heterotetrameric core complex containing two molecules each of MAD1L1 and of MAD2L1 promotes binding of another molecule of MAD2L1 to each MAD2L1, resulting in a heterohexamer. Interacts with CDC20, MAD2L1BP and with ADAM17/TACE. Dimeric MAD2L1 in the closed conformation interacts with CDC20. Monomeric MAD2L1 in the open conformation does not interact with CDC20. CDC20 competes with MAD1L1 for MAD2L1 binding. Interacts with TPR. Binds to UBD (via ubiquitin-like 1 domain) during mitosis. Interacts with isoform 1 and isoform 2 of NEK2. Interacts with HSF1; this interaction occurs in mitosis (PubMed:18794143).

Post-translational Modifications: Phosphorylated on multiple serine residues. The level of phosphorylation varies during the cell cycle and is highest during mitosis. Phosphorylation abolishes interaction with MAD1L1 and reduces interaction with CDC20. Phosphorylated by NEK2.

Similarity: 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. The protein in the closed conformation preferentially dimerizes with another molecule in the open conformation, but can also form a dimer with a molecule in the closed conformation. Formation of a heterotetrameric core complex containing two molecules of MAD1L1 and of MAD2L1 in the closed conformation promotes binding of another molecule of MAD2L1 in the open conformation and the conversion of the open to the closed form, and thereby promotes interaction with CDC20. Belongs to the MAD2 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505067
NCBI GeneID	4085
NCBI Accession #	NP_002349.1
NCBI GenBank Nucleotide #	NM_002358.3
UniProt Accession #	Q13257; Q53F56; Q548X9; Q6IRW7; Q8IZX3
Molecular Weight	Observed: 25 kD Predicted: 24 kDa
NCBI Official Full Name	mitotic spindle assembly checkpoint protein MAD2A
NCBI Official Synonym Full Names	mitotic arrest deficient 2 like 1
NCBI Official Symbol	MAD2L1

NCBI Official Synonym Symbols	MAD2; HSMAD2
NCBI Protein Information	mitotic spindle assembly checkpoint protein MAD2A
UniProt Protein Name	Mitotic spindle assembly checkpoint protein MAD2A
UniProt Gene Name	MAD2L1
UniProt Synonym Gene Names	MAD2; HsMAD2; MAD2-like protein 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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