

MAD2L1 / MAD2 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS13625**Specification**

MAD2L1 / MAD2 Antibody - Product Information

Application	WB, IHC
Primary Accession	Q13257
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24kDa KDa

MAD2L1 / MAD2 Antibody - Additional Information**Gene ID** 4085**Other Names**

Mitotic spindle assembly checkpoint protein MAD2A, HsMAD2, Mitotic arrest deficient 2-like protein 1, MAD2-like protein 1, MAD2L1, MAD2

Target/Specificity

Human Mad2L1. Predicted cross-reactivity based on amino acid sequence homology: mouse (94%), rat (95%).

Reconstitution & Storage

Aliquot and store at -20°C. Minimize freezing and thawing.

Precautions

MAD2L1 / MAD2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

MAD2L1 / MAD2 Antibody - Protein Information**Name** MAD2L1**Synonyms** MAD2**Function**

Component of the spindle-assembly checkpoint that prevents the onset of anaphase until all chromosomes are properly aligned at the metaphase plate (PubMed: [29162720](http://www.uniprot.org/citations/29162720), PubMed: [15024386](http://www.uniprot.org/citations/15024386)). In the closed conformation (C-MAD2) forms a heterotetrameric complex with MAD1L1 at unattached kinetochores during prometaphase, the complex recruits open conformation molecules of MAD2L1 (O-MAD2) and then promotes the conversion of O-MAD2 to C-MAD2 (PubMed: [29162720](http://www.uniprot.org/citations/29162720)). 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 (PubMed:10700282, PubMed:11804586, PubMed:15024386).

Cellular Location

Nucleus. Chromosome, centromere, kinetochore. Cytoplasm. Cytoplasm, cytoskeleton, spindle pole Note=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. Sequestered to the cytoplasm upon interaction with isoform 3 of MAD1L1 (PubMed:19010891) {ECO:0000269|PubMed:19010891, ECO:0000305}

Volume

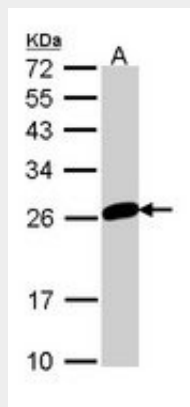
50 µl

MAD2L1 / MAD2 Antibody - Protocols

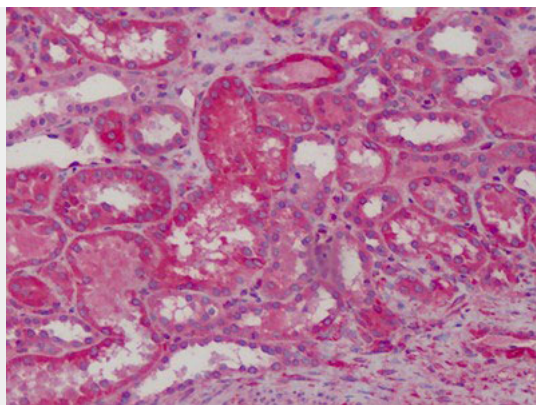
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MAD2L1 / MAD2 Antibody - Images



Sample (30 ug of whole cell lysate). A: 293T. 12% SDS PAGE. MAD2L1 antibody diluted at 1:1000.



Anti-MAD2L1 antibody IHC of human kidney.

MAD2L1 / MAD2 Antibody - Background

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.

MAD2L1 / MAD2 Antibody - References

- Li Y.,et al.Science 274:246-248(1996).
- Gemma A.,et al.Lung Cancer 32:289-295(2001).
- Jin D.-Y.,et al.Submitted (JUL-1995) to the EMBL/GenBank/DDBJ databases.
- Klebert S.,et al.Submitted (OCT-1997) to the EMBL/GenBank/DDBJ databases.
- Nobori T.,et al.Submitted (FEB-2001) to the EMBL/GenBank/DDBJ databases.