

## **Anti-MAD2 Antibody**

Rabbit polyclonal antibody to MAD2 Catalog # AP59612

### **Specification**

## **Anti-MAD2 Antibody - Product Information**

Application WB
Primary Accession Q13257
Other Accession Q921B5

Reactivity
Host
Clonality
Human, Mouse, Rat, Monkey
Rabbit
Polyclonal

Calculated MW 23510

# **Anti-MAD2 Antibody - Additional Information**

#### **Gene ID 4085**

#### **Other Names**

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

# **Target/Specificity**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MAD2. The exact sequence is proprietary.

#### **Dilution**

WB~~WB (1/500 - 1/1000)

#### **Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

## **Storage**

Store at -20 °C. Stable for 12 months from date of receipt

## **Anti-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:<a href="http://www.uniprot.org/citations/15024386" target="\_blank">15024386</a>, PubMed:<a href="http://www.uniprot.org/citations/29162720" target="\_blank">29162720</a>). 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:<a href="http://www.uniprot.org/citations/29162720" target="\_blank">29162720</a>). 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:<a

 $href="http://www.uniprot.org/citations/10700282" target="\_blank">10700282</a>, PubMed:<a href="http://www.uniprot.org/citations/11804586" target="\_blank">11804586</a>, PubMed:<a href="http://www.uniprot.org/citations/15024386" target="_blank">15024386</a>).$ 

### **Cellular Location**

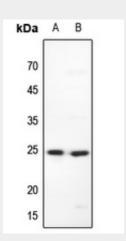
Nucleus. Chromosome, centromere, kinetochore. Cytoplasm. Cytoplasm, cytoskeleton, spindle pole Note=Recruited by MAD1L1 to unattached kinetochores (Probable) Recruited to the nuclear pore complex by TPR during interphase Recruited to kinetochores in late prometaphase after BUB1, CENPF, BUB1B and CENPE. 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}

# **Anti-MAD2 Antibody - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

### **Anti-MAD2 Antibody - Images**



Western blot analysis of MAD2 expression in HEK293T (A), Hela (B) whole cell lysates.

# Anti-MAD2 Antibody - Background

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