

# KD-Validated Anti-Mitotic Arrest Deficient 1 Like 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1352

## Product Information

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| Application       | WB, FC, ICC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Primary Accession | <a href="#">Q9Y6D9</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Reactivity        | Rat, Human, Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Clonality         | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Isotype           | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Clone Names       | 25GB3060                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Calculated MW     | 83067                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Gene Name         | MAD1L1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Aliases           | MAD1L1; Mitotic Arrest Deficient 1 Like 1; TXBP181; MAD1; HsMAD1; TP53I9; PIG9; Mitotic Spindle Assembly Checkpoint Protein MAD1; Mitotic Arrest Deficient 1-Like Protein 1; Mitotic Checkpoint MAD1 Protein Homolog; MAD1 Mitotic Arrest Deficient Like 1; Tax-Binding Protein 181; MAD1-Like Protein 1; MAD1 (Mitotic Arrest Deficient, Yeast, Homolog)-Like 1; Mitotic-Arrest Deficient 1, Yeast, Homolog-Like 1; MAD1 Mitotic Arrest Deficient-Like 1 (Yeast); Tumor Protein P53 Inducible Protein 9; HMAD1; MVA7 |
| Immunogen         | A synthesized peptide derived from human MAD1                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Additional Information

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| Gene ID     | 8379                                                                                                                                                                                                                     |
| Other Names | Mitotic spindle assembly checkpoint protein MAD1, Mitotic arrest deficient 1-like protein 1, MAD1-like protein 1, Mitotic checkpoint MAD1 protein homolog, HsMAD1, hMAD1, Tax-binding protein 181, MAD1L1, MAD1, TXBP181 |

## Protein Information

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| Name     | MAD1L1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Synonyms | MAD1, TXBP181                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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="#">10049595</a> , PubMed: <a href="#">20133940</a> , PubMed: <a href="#">29162720</a> ). Forms a heterotetrameric complex with the closed conformation form of MAD2L1 (C-MAD2) at unattached kinetochores during prometaphase, recruits an open conformation of MAD2L1 (O-MAD2) and promotes the conversion of O-MAD2 to C-MAD2, which ensures mitotic checkpoint signaling (PubMed: <a href="#">29162720</a> ). |

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| <b>Cellular Location</b> | Nucleus. Chromosome, centromere, kinetochore. Nucleus envelope<br>Cytoplasm, cytoskeleton, microtubule organizing center, centrosome.<br>Cytoplasm, cytoskeleton, spindle. Cytoplasm, cytoskeleton, spindle pole.<br>Note=Co- localizes with TPR at the nucleus envelope during interphase and throughout the cell cycle (PubMed:18981471, PubMed:22351768). From the beginning to the end of mitosis, it is seen to move from a diffusely nuclear distribution to the centrosome, to the spindle midzone and finally to the midbody (PubMed:9546394). Localizes to kinetochores during prometaphase (PubMed:22351768, PubMed:29162720). Does not localize to kinetochores during metaphase (PubMed:29162720) Colocalizes with NEK2 at the kinetochore (PubMed:14978040). Colocalizes with IK at spindle poles during metaphase and anaphase (PubMed:22351768). |
| <b>Tissue Location</b>   | [Isoform 1]: Expressed in hepatocellular carcinomas and hepatoma cell lines (at protein level)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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