

KD-Validated Anti-Mitotic Arrest Deficient 1 Like 1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1352**Specification****KD-Validated Anti-Mitotic Arrest Deficient 1 Like 1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	O9Y6D9
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 83 kDa; observed, 75 kDa kDa
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

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

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	

KD-Validated Anti-Mitotic Arrest Deficient 1 Like 1 Rabbit Monoclonal Antibody - Protein Information**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:10049595, PubMed:20133940, PubMed:29162720). 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:29162720).

Cellular Location

Nucleus. Chromosome, centromere, kinetochore. Nucleus envelope Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle. Cytoplasm, cytoskeleton, spindle pole. 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).

Tissue Location

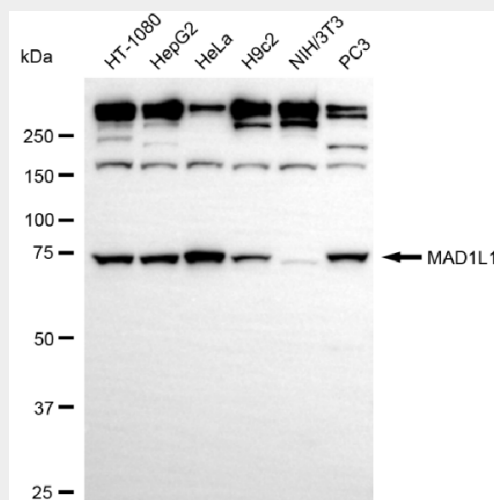
[Isoform 1]: Expressed in hepatocellular carcinomas and hepatoma cell lines (at protein level)

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

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

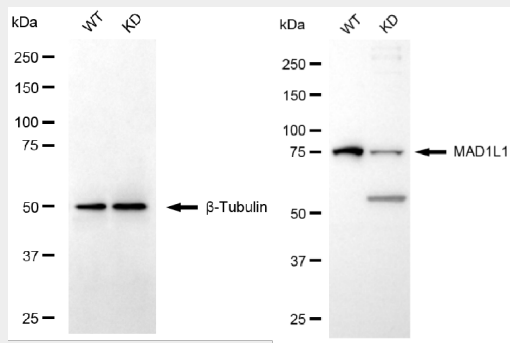
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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

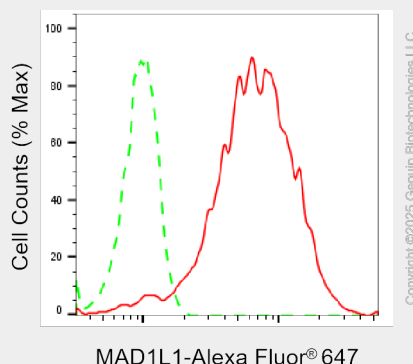


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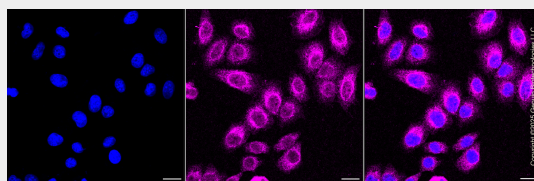
Western blotting analysis using anti-MAD1L1 antibody (Cat#61622). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-MAD1L1 antibody (Cat#61622, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using NaQ™ ECL Substrate Kit (Cat#716).



Western blotting analysis using anti-MAD1L1 antibody (Cat#61622). MAD1L1 expression in wild-type (WT) and MAD1L1 knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-MAD1L1 antibody (Cat#61622, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using NaQ™ ECL Substrate Kit (Cat#716).



Flow cytometric analysis of MAD1L1 expression in HepG2 cells using anti-MAD1L1 antibody (Cat#61622, 1:2,000). Green, isotype control; red, MAD1L1.



Immunocytochemical staining of HepG2 cells with anti-MAD1L1 antibody (Cat#61622, 1:1,000). Nuclei were stained blue with DAPI; MAD1L1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.