

KD-Validated Anti-Mitotic Arrest Deficient 2 Like 2 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1870**Specification****KD-Validated Anti-Mitotic Arrest Deficient 2 Like 2 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	Q9UI95
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 24 kDa, observed, 24 kDa kDa
Gene Name	MAD2L2
Aliases	MAD2L2; Mitotic Arrest Deficient 2 Like 2; MAD2B; REV7; POLZ2; FANCV; MAD2 (Mitotic Arrest Deficient, Yeast, Homolog)-Like 2; Polymerase (DNA-Directed), Zeta 2, Accessory Subunit; Mitotic Spindle Assembly Checkpoint Protein MAD2B; Mitotic Arrest Deficient 2-Like Protein 2; Mitotic Arrest Deficient Homolog-Like 2; MAD2-Like Protein 2; REV7 Homolog; hREV7; MAD2 Mitotic Arrest Deficient-Like 2
Immunogen	A synthesized peptide derived from human Mad2L2

KD-Validated Anti-Mitotic Arrest Deficient 2 Like 2 Rabbit Monoclonal Antibody - Additional Information

Gene ID	10459
Other Names	
Mitotic spindle assembly checkpoint protein MAD2B, Mitotic arrest deficient 2-like protein 2, MAD2-like protein 2, REV7 homolog, hREV7, MAD2L2, MAD2B, REV7	

KD-Validated Anti-Mitotic Arrest Deficient 2 Like 2 Rabbit Monoclonal Antibody - Protein Information**Name** MAD2L2**Synonyms** MAD2B, REV7**Function**

Adapter protein able to interact with different proteins and involved in different biological processes (PubMed: <http://www.uniprot.org/citations/11459825> target="_blank">11459825, PubMed: <http://www.uniprot.org/citations/11459826> target="_blank">11459826, PubMed: <http://www.uniprot.org/citations/17296730> target="_blank">11459826)

target="_blank">17296730, PubMed:17719540, PubMed:19443654, PubMed:29656893). Mediates the interaction between the error-prone DNA polymerase zeta catalytic subunit REV3L and the inserter polymerase REV1, thereby mediating the second polymerase switching in translesion DNA synthesis (PubMed:20164194). Translesion DNA synthesis releases the replication blockade of replicative polymerases, stalled in presence of DNA lesions (PubMed:20164194). Component of the shieldin complex, which plays an important role in repair of DNA double-stranded breaks (DSBs) (PubMed:29656893). During G1 and S phase of the cell cycle, the complex functions downstream of TP53BP1 to promote non-homologous end joining (NHEJ) and suppress DNA end resection (PubMed:29656893). Mediates various NHEJ-dependent processes including immunoglobulin class-switch recombination, and fusion of unprotected telomeres (PubMed:29656893). May also regulate another aspect of cellular response to DNA damage through regulation of the JNK-mediated phosphorylation and activation of the transcriptional activator ELK1 (PubMed:17296730). Inhibits the FZR1- and probably CDC20-mediated activation of the anaphase promoting complex APC thereby regulating progression through the cell cycle (PubMed:11459825, PubMed:17719540). Regulates TCF7L2-mediated gene transcription and may play a role in epithelial-mesenchymal transdifferentiation (PubMed:19443654).

Cellular Location

Nucleus. Cytoplasm, cytoskeleton, spindle. Cytoplasm. Chromosome. Note=Recruited to sites of chromosomal double-stranded breaks during G1 and S phase of the cell cycle

Tissue Location

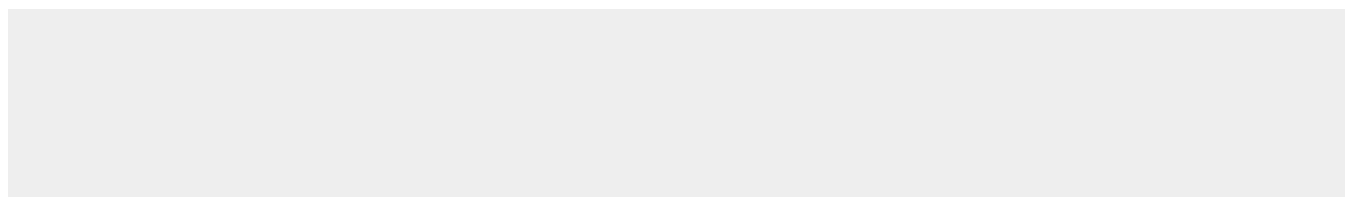
Ubiquitously expressed.

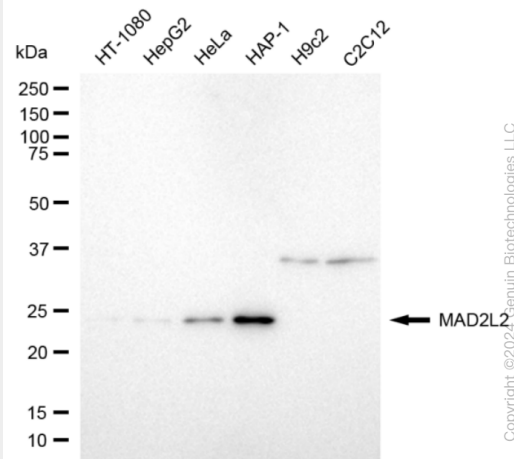
KD-Validated Anti-Mitotic Arrest Deficient 2 Like 2 Rabbit Monoclonal Antibody - Protocols

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

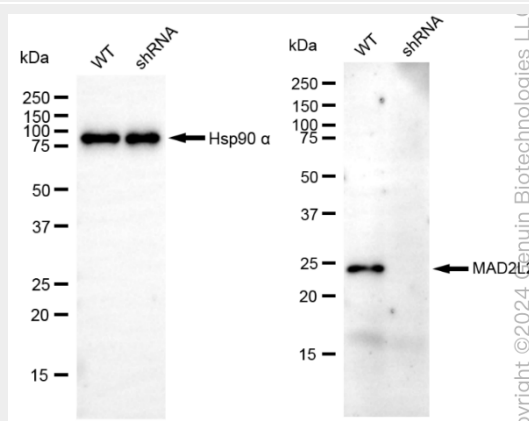
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-Mitotic Arrest Deficient 2 Like 2 Rabbit Monoclonal Antibody - Images

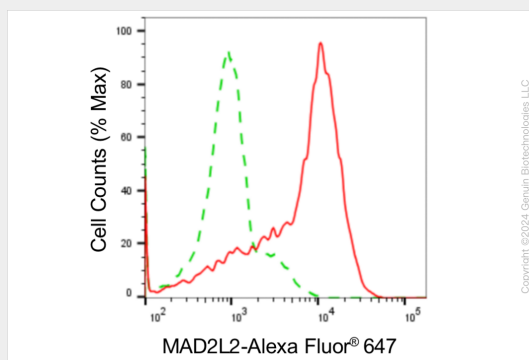




Western blotting analysis using anti-MAD2L2 antibody (Cat#63299). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-MAD2L2 antibody (Cat#63299, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using NaQ™ ECL Substrate Kit (Cat#716). MAD2L2, mitotic arrest deficient 2 like 2.



Western blotting analysis using anti-MAD2L2 antibody (Cat#63299). MAD2L2 expression in wild-type (WT) and MAD2L2 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-MAD2L2 antibody (Cat#63299, 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 MAD2L2 expression in HAP-1 cells using anti-MAD2L2 antibody (Cat#63299, 1:2,000). Green, isotype control; red, MAD2L2.