

**Mad2L2 Antibody**  
Rabbit mAb  
Catalog # AP91576

## Specification

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### Mad2L2 Antibody - Product Information

Application	WB, IHC, FC, ICC, IP
Primary Accession	<a href="#">O9UI95</a>
Reactivity	Rat
Clonality	Monoclonal
<b>Other Names</b>	
hREV7; MAD2B; Mad2L2 Mitotic Arrest Deficient 2 L2; POLZ2; REV 7; REV7; REV7 homolog;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	24334 Da

### Mad2L2 Antibody - Additional Information

Purification	<b>Affinity-chromatography</b>
Immunogen	<b>A synthesized peptide derived from human Mad2L2</b>
Description	<b>Adapter protein able to interact with different proteins and involved in different biological processes. 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.</b>
Storage Condition and Buffer	<b>Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.</b>

### Mad2L2 Antibody - Protein Information

**Name** MAD2L2

**Synonyms** MAD2B, REV7

#### Function

Adapter protein able to interact with different proteins and involved in different biological processes (PubMed: [11459825](http://www.uniprot.org/citations/11459825) target="\_blank">11459825</a>, PubMed: [11459826](http://www.uniprot.org/citations/11459826) target="\_blank">11459826</a>, PubMed: [17296730](http://www.uniprot.org/citations/17296730) target="\_blank">17296730</a>, PubMed: [17719540](http://www.uniprot.org/citations/17719540) target="\_blank">17719540</a>, PubMed: [19443654](http://www.uniprot.org/citations/19443654) target="\_blank">19443654</a>)

target="\_blank">19443654</a>, PubMed:<a href="http://www.uniprot.org/citations/29656893" target="\_blank">29656893</a>). 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:<a href="http://www.uniprot.org/citations/20164194" target="\_blank">20164194</a>). Translesion DNA synthesis releases the replication blockade of replicative polymerases, stalled in presence of DNA lesions (PubMed:<a href="http://www.uniprot.org/citations/20164194" target="\_blank">20164194</a>). Component of the shieldin complex, which plays an important role in repair of DNA double-stranded breaks (DSBs) (PubMed:<a href="http://www.uniprot.org/citations/29656893" target="\_blank">29656893</a>). 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:<a href="http://www.uniprot.org/citations/29656893" target="\_blank">29656893</a>). Mediates various NHEJ-dependent processes including immunoglobulin class-switch recombination, and fusion of unprotected telomeres (PubMed:<a href="http://www.uniprot.org/citations/29656893" target="\_blank">29656893</a>). 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:<a href="http://www.uniprot.org/citations/17296730" target="\_blank">17296730</a>). Inhibits the FZR1- and probably CDC20-mediated activation of the anaphase promoting complex APC thereby regulating progression through the cell cycle (PubMed:<a href="http://www.uniprot.org/citations/11459825" target="\_blank">11459825</a>, PubMed:<a href="http://www.uniprot.org/citations/17719540" target="\_blank">17719540</a>). Regulates TCF7L2-mediated gene transcription and may play a role in epithelial-mesenchymal transdifferentiation (PubMed:<a href="http://www.uniprot.org/citations/19443654" target="\_blank">19443654</a>).

#### 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.

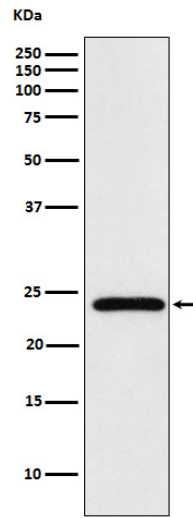
#### Mad2L2 Antibody - Protocols

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](#)

#### Mad2L2 Antibody - Images





Western blot analysis of Mad2L2 expression in HeLa cell lysate.