

MAD2L2 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5027

Specification

MAD2L2 Antibody (C-term) - Product Information

Application	IF, WB, IHC-P,E
Primary Accession	O9UI95
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Calculated MW	H=24;M=24;Rat=24 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

MAD2L2 Antibody (C-term) - Additional Information

Gene ID 10459

Antigen Region
198-231

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

Dilution

IF~~1:25
WB~~1:1000
IHC-P~~1:25

Target/Specificity

This MAD2L2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 198-231 amino acids from the C-terminal region of human MAD2L2.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

MAD2L2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MAD2L2 Antibody (C-term) - Protein Information

Name MAD2L2

Synonyms MAD2B, REV7

Function

Adapter protein able to interact with different proteins and involved in different biological processes (PubMed:11459825, PubMed:11459826, PubMed: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.

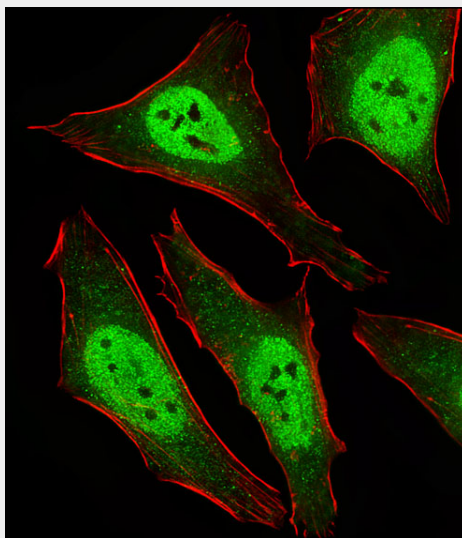
MAD2L2 Antibody (C-term) - Protocols

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

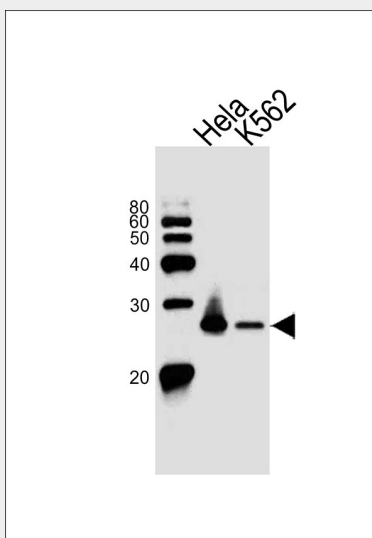
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

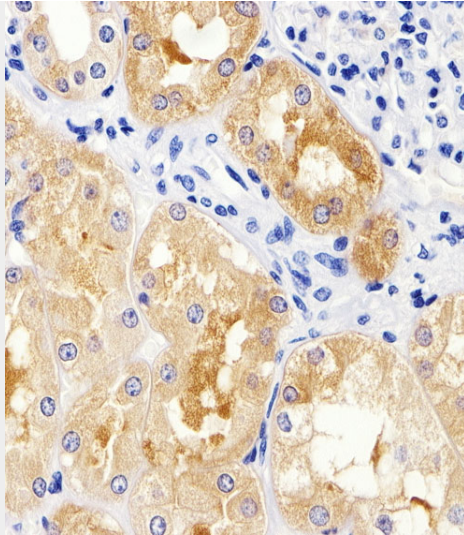
MAD2L2 Antibody (C-term) - Images



Fluorescent image of HeLa cells stained with MAD2L2 Antibody (C-term)(Cat#AW5027). AW5027 was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).



Western blot analysis of lysates from HeLa, K562 cell line (from left to right), using MAD2L2 Antibody (C-term)(Cat. #AW5027). AW5027 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



Immunohistochemical analysis of paraffin-embedded H. kidney section using MAD2L2 Antibody (C-term)(Cat#AW5027). AW5027 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

MAD2L2 Antibody (C-term) - Background

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. Translesion DNA synthesis releases the replication blockade of replicative polymerases, stalled in presence of DNA lesions. 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. Inhibits the FZR1- and probably CDC20-mediated activation of the anaphase promoting complex APC thereby regulating progression through the cell cycle. Regulates TCF7L2-mediated gene transcription and may play a role in epithelial-mesenchymal transdifferentiation.

MAD2L2 Antibody (C-term) - References

- Nelson K.K.,et al.Biochem. J. 343:673-680(1999).
- Hirota T.,et al.Submitted (DEC-1999) to the EMBL/GenBank/DDBJ databases.
- Cahill D.P.,et al.Genomics 58:181-187(1999).
- Murakumo Y.,et al.J. Biol. Chem. 275:4391-4397(2000).
- Ota T.,et al.Nat. Genet. 36:40-45(2004).