

# Anti-Mad2L2 Antibody [JU99-23]

ET1706-38



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IHC-P, FC, IP
<b>Molecular Wt:</b>	Predicted band size: 24 kDa
<b>Clone number:</b>	JU99-23

**Description:** 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. Component of the shieldin complex, which plays an important role in repair of DNA double-stranded breaks (DSBs). 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. Mediates various NHEJ-dependent processes including immunoglobulin class-switch recombination, and fusion of unprotected telomeres. 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.

**Immunogen:** Synthetic peptide within Human Mad2L2 aa 162-211 / 211.  
**Positive control:** SiHa cell lysates, K562 cell lysates, rat lung tissue, mouse colon tissue, human tonsil tissue, HeLa.

**Subcellular location:** Nucleus, Cytoplasm, cytoskeleton, spindle, Chromosome.

**Database links:** SwissProt: Q9UI95 Human | Q9D752 Mouse | D3Z8D9 Rat

**Recommended Dilutions:**

<b>WB</b>	1:500
<b>IHC-P</b>	1:50-1:200
<b>FC</b>	1:50-1:100
<b>IP</b>	1:10-1:50

**Storage Buffer:** 1\*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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## Images

**Fig1:** Western blot analysis of Mad2L2 on SiHa cell lysates with Rabbit anti-Mad2L2 antibody (ET1706-38) at 1/500 dilution.

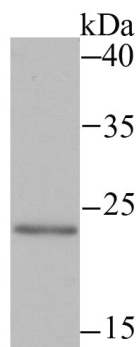
Lysates/proteins at 10 µg/Lane.

Predicted band size: 24 kDa

Observed band size: 24 kDa

Exposure time: 2 minutes;

15% SDS-PAGE gel.



Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1706-38) at 1/500 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:200,000 dilution was used for 1 hour at room temperature.

**Fig2:** Western blot analysis of Mad2L2 on K562 cell lysates with Rabbit anti-Mad2L2 antibody (ET1706-38) at 1/500 dilution.

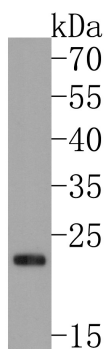
Lysates/proteins at 10 µg/Lane.

Predicted band size: 24 kDa

Observed band size: 24 kDa

Exposure time: 2 minutes;

15% SDS-PAGE gel.



Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1706-38) at 1/500 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:200,000 dilution was used for 1 hour at room temperature.

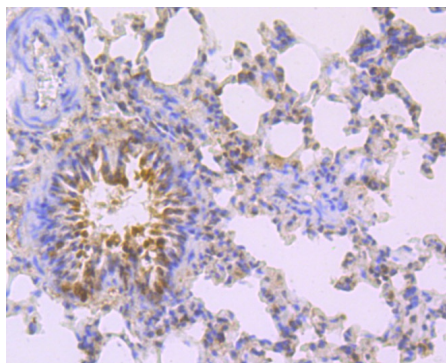
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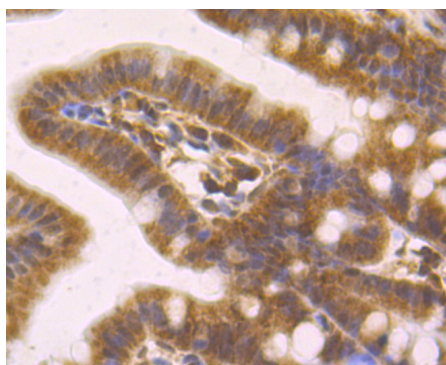
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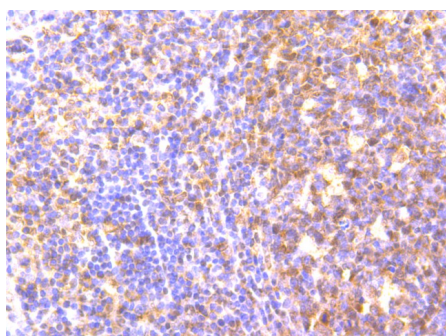
**Fig3:** Immunohistochemical analysis of paraffin-embedded rat lung tissue with Rabbit anti-Mad2L2 antibody (ET1706-38) at 1/50 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (ET1706-38) at 1/50 dilution for 0.5 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



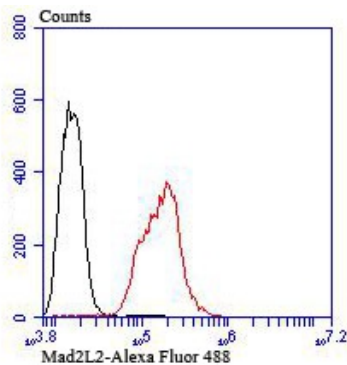
**Fig4:** Immunohistochemical analysis of paraffin-embedded mouse colon tissue with Rabbit anti-Mad2L2 antibody (ET1706-38) at 1/50 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (ET1706-38) at 1/50 dilution for 0.5 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Fig5:** Immunohistochemical analysis of paraffin-embedded human tonsil tissue with Rabbit anti-Mad2L2 antibody (ET1706-38) at 1/50 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (ET1706-38) at 1/50 dilution for 0.5 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Fig6:** Flow cytometric analysis of Mad2L2 was done on HeLa cells. The cells were fixed, permeabilized and stained with the primary antibody (ET1706-38, 1/50) (red). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor®488 conjugate-Goat anti-Rabbit IgG Secondary antibody at 1/1,000 dilution for 30 minutes. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

**Note:** All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

### Background References

1. Tang H et al. MAD2B-mediated SnoN downregulation is implicated in fibroblast activation and tubulointerstitial fibrosis. *Am J Physiol Renal Physiol* 311:F207-16 (2016).
2. Simonetta M et al. H4K20me2 distinguishes pre-replicative from post-replicative chromatin to appropriately direct DNA repair pathway choice by 53BP1-RIF1-MAD2L2. *Cell Cycle* 1-29 (2017).

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