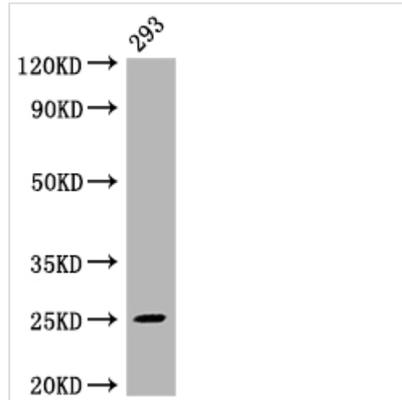




MAD2L2 Antibody

Product Code	CSB-RA782379A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q9UI95
Immunogen	A synthesized peptide derived from human Mad2L2
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC, IF; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200, IF:1:20-1:200
Relevance	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.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer; Cell biology
Gene Names	MAD2L2
Accession NO.	4D8
Image	


Western Blot

Positive WB detected in: 293 whole cell lysate

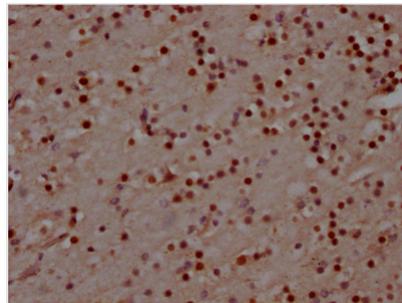
All lanes: Mad2L2 antibody at 1:2000

Secondary

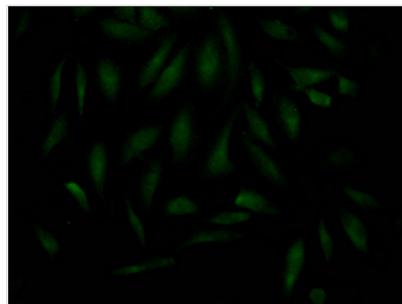
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 25 kDa

Observed band size: 25 kDa



IHC image of CSB-RA782379A0HU diluted at 1:100 and staining in paraffin-embedded human brain tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



Immunofluorescence staining of HeLa Cells with CSB-RA782379A0HU at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Description

MAD2L2 is a chromatin-binding protein that participates in the modulation of cell cycle and DNA damage response (DDR). MAD2L2 is involved in preventing the onset of anaphase and ensuring that all chromosomes are aligned correctly at the metaphase plate. It also takes part in translesion DNA synthesis (TLS), mitotic control, signal transduction, transcription, as well as the choice of repair pathway in DNA double-strand breaks. MAD2L2 was previously described as a non-catalytic auxiliary subunit of DNA pol zeta (?), and its knockdown caused hypersensitivity to DNA damage. MAD2L2 dysregulation has been found in a variety of cancers, and MAD2L2 overexpression has been detected in glioma, epithelial ovarian cancer, and breast cancer.

CUSABIO cloned MAD2L2 antibody-coding genes into plasma vectors and then transfected these vector clones into mammalian cells using a lipid-based transfection reagent. Following transient expression, the recombinant antibodies against MAD2L2 were harvested and characterized. The recombinant MAD2L2 antibody was purified by Affinity-chromatography from the culture medium. It can be used to detect MAD2L2 protein from Human in the ELISA, WB, IHC, IF.