

## Recombinant Mouse Mad2l2 Protein, Myc/DDK-tagged

**Cat. No.** Mad2l2-3897M    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

Purified recombinant protein of mouse full-length MAD2 mitotic arrest deficient-like 2 (Mad2l2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

#### Species

Mouse

#### Source

HEK293

#### 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.

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|                       |                                                                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | 24.4 kDa                                                                                                                                      |
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                   |
| <b>Stability</b>      | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>        | Store at -80 centigrade after receiving vials.                                                                                                |
| <b>Concentration</b>  | >50 µg/mL as determined by microplate BCA method                                                                                              |
| <b>Storage Buffer</b> | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                         |

## GENE INFORMATION

|                        |                                                                                                                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Mad2l2 MAD2 mitotic arrest deficient-like 2 [ Mus musculus (house mouse) ]                                                                                                                          |
| <b>Official Symbol</b> | Mad2l2                                                                                                                                                                                              |
| <b>Synonyms</b>        | MAD2L2; MAD2 mitotic arrest deficient-like 2 (yeast); mitotic spindle assembly checkpoint protein MAD2B; MAD2-like protein 2; mitotic arrest deficient 2-like protein 2; REV7; MAD2B; 2310033C13Rik |
| <b>Gene ID</b>         | 71890                                                                                                                                                                                               |
| <b>mRNA Refseq</b>     | NM_027985                                                                                                                                                                                           |
| <b>Protein Refseq</b>  | NP_082261                                                                                                                                                                                           |
| <b>UniProt ID</b>      | Q9D752                                                                                                                                                                                              |

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