

# Recombinant Human MAD2L1, His-tagged

**Cat. No.** MAD2L1 -161H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Recombinant Human MAD2L1 /MAD2 Protein (rh MAD2L1 /MAD2) Met 1 - Asp 205 (Accession # NP_002349) was produced in E.coli cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | Met1-Asp205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | Mitotic arrest deficient 2-like protein 1 (MAD2L1) is also known as Mitotic spindle assembly checkpoint protein MAD2A (HsMAD2), MAD2. MAD2L1 / MAD2 belongs to the MAD2 family. MAD2L1 / MAD2 contains one HORMA domain. MAD2L1 is the component of the spindle-assembly checkpoint that prevents the onset of anaphase until all chromosomes are properly aligned at the metaphase plate. MAD2L1 / MAD2 is required for the execution of the mitotic checkpoint which monitors the process of kinetochore-spindle attachment and inhibits the activity of the anaphase promoting complex by sequestering CDC20 until all chromosomes are aligned at the metaphase plate. |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | rh MAD2L1 /MAD2 is fused with a polyhistidine tag at the C-terminus, and has a calculated MW of 24.3 kDa. The predicted N-terminus is Met 1. DTT-reduced Protein migrates as 24 kDa in SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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| <b>Endotoxin</b>      | Less than 1.0 EU per µg of the rh MAD2L1 /MAD2 by the LAL method.                                                                                                                           |
| <b>Purity</b>         | >95% as determined by SDS-PAGE.                                                                                                                                                             |
| <b>Storage</b>        | Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4oC); After reconstitution under sterile conditions for 3 months (-70oC). |
| <b>Reconstitution</b> | See Certificate of Analysis for reconstitution instructions and specific concentrations.                                                                                                    |

## GENE INFORMATION

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|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | MAD2L1 MAD2 mitotic arrest deficient-like 1 (yeast) [ Homo sapiens ]                                                                                                                                                                                                                                                                                    |
| <b>Official Symbol</b> | MAD2L1                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>        | MAD2L1; MAD2 mitotic arrest deficient-like 1 (yeast); MAD2 (mitotic arrest deficient, yeast, homolog) like 1; mitotic spindle assembly checkpoint protein MAD2A; HSMAD2; MAD2; MAD2-like protein 1; mitotic arrest deficient 2-like protein 1; mitotic arrest deficient, yeast, homolog-like 1; MAD2 (mitotic arrest deficient, yeast, homolog)-like 1; |
| <b>Gene ID</b>         | 4085                                                                                                                                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>     | NM_002358                                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>  | NP_002349                                                                                                                                                                                                                                                                                                                                               |
| <b>MIM</b>             | 601467                                                                                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID</b>      | Q13257                                                                                                                                                                                                                                                                                                                                                  |

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 4q27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Pathway</b>             | APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; Amplification of signal from unattached kinetochores via a MAD2 inhibitory signal, organism-specific biosystem; Amplification of signal from the kinetochores, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; |
| <b>Function</b>            | protein binding; protein homodimerization activity;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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