Recombinant Human MAD2L1, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human MAD2L1 /MAD2 Protein (rh MAD2L1 /MAD2) Met 1 - Asp 205 (Accession # NP_002349) was produced in E.coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1-Asp205
Description	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.
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.
Molecular Mass	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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Endotoxin	Less than 1.0 EU per μg of the rh MAD2L1 /MAD2 by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	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).
Reconstitution	See Certificate of Analysis for reconstitution instructions and specific concentrations.

GENE INFORMATION

Gene Name	MAD2L1 MAD2 mitotic arrest deficient-like 1 (yeast) [Homo sapiens]
Official Symbol	MAD2L1
Synonyms	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;
Gene ID	4085
mRNA Refseq	NM_002358
Protein Refseq	NP_002349
MIM	601467
UniProt ID	Q13257

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Chromosome Location	4q27
Pathway	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; Amplificationof signal from unattachedkinetochores via a MAD2inhibitory signal, organism-specific biosystem; Amplification of signal from the kinetochores, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem;
Function	protein binding; protein homodimerization activity;

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