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MAD2L1 Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP20713c

Specification

MAD2L1 Blocking Peptide (C-term) - Product Information

Primary Accession	Q13257
Other Accession	O9Z1B5

MAD2L1 Blocking Peptide (C-term) - Additional Information

Gene ID 4085

Other Names
Mitotic spindle assembly checkpoint protein MAD2A, HsMAD2, Mitotic arrest deficient 2-like protein 1, MAD2-like protein 1, MAD2L1, MAD2

Target/Specificity
The synthetic peptide sequence is selected from aa 159-172 of HUMAN MAD2L1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MAD2L1 Blocking Peptide (C-term) - Protein Information

Name MAD2L1

Synonyms MAD2

Function
Component of the spindle-assembly

MAD2L1 Blocking Peptide (C-term) - Background

Component of the spindle-assembly checkpoint that prevents the onset of anaphase until all chromosomes are properly aligned at the metaphase plate. 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.

MAD2L1 Blocking Peptide (C-term) - References

Li Y.,et al.Science 274:246-248(1996).
Gemma A.,et al.Lung Cancer 32:289-295(2001).
Jin D.-Y.,et al.Submitted (JUL-1995) to the EMBL/GenBank/DDBJ databases.
Klebert S.,et al.Submitted (OCT-1997) to the EMBL/GenBank/DDBJ databases.
Nobori T.,et al.Submitted (FEB-2001) to the EMBL/GenBank/DDBJ databases.

checkpoint that prevents the onset of anaphase until all chromosomes are properly aligned at the metaphase plate (PubMed:29162720, PubMed:15024386). In the closed conformation (C-MAD2) forms a heterotetrameric complex with MAD1L1 at unattached kinetochores during prometaphase, the complex recruits open conformation molecules of MAD2L1 (O-MAD2) and then promotes the conversion of O-MAD2 to C-MAD2 (PubMed:29162720). 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 (PubMed:10700282, PubMed:11804586, PubMed:15024386).

Cellular Location

Nucleus. Chromosome, centromere, kinetochore. Cytoplasm. Cytoplasm, cytoskeleton, spindle pole Note=Recruited by MAD1L1 to unattached kinetochores (Probable) Recruited to the nuclear pore complex by TPR during interphase Recruited to kinetochores in late prometaphase after BUB1, CENPF, BUB1B and CENPE. Kinetochore association requires the presence of NEK2 Kinetochore association is repressed by UBD. Sequestered to the cytoplasm upon interaction with isoform 3 of MAD1L1 (PubMed:19010891) {ECO:0000269|PubMed:19010891, ECO:0000305}

MAD2L1 Blocking Peptide (C-term) - Protocols

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Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides