

**MAD1L1 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12347a****Specification**

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**MAD1L1 Antibody (N-term) Blocking peptide - Product Information**Primary Accession [Q9Y6D9](#)**MAD1L1 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 8379**Other Names**

Mitotic spindle assembly checkpoint protein MAD1, Mitotic arrest deficient 1-like protein 1, MAD1-like protein 1, Mitotic checkpoint MAD1 protein homolog, HsMAD1, hMAD1, Tax-binding protein 181, MAD1L1, MAD1, TXBP181

**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.

**MAD1L1 Antibody (N-term) Blocking peptide - Protein Information****Name** MAD1L1**Synonyms** MAD1, TXBP181**Function**

Component of the spindle-assembly checkpoint that prevents the onset of anaphase until all chromosomes are properly aligned at the metaphase plate (PubMed:<a href="http://www.uniprot.org/citations/10049595" target="\_blank">10049595</a>, PubMed:<a href="http://www.uniprot.org/citations/20133940" target="\_blank">20133940</a>, PubMed:<a href="http://www.uniprot.org/citations/29162720" target="\_blank">29162720</a>). Forms a heterotetrameric complex with the closed conformation form of MAD2L1 (C-MAD2) at unattached kinetochores during prometaphase, recruits an open conformation of MAD2L1 (O-MAD2) and promotes the conversion of O-MAD2 to C-MAD2, which ensures mitotic checkpoint signaling (PubMed:<a href="http://www.uniprot.org/citations/29162720" target="\_blank">29162720</a>).

**Cellular Location**

Nucleus. Chromosome, centromere, kinetochore. Nucleus envelope Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle. Cytoplasm, cytoskeleton, spindle pole. Note=Co- localizes with TPR at the nucleus envelope during interphase

and throughout the cell cycle (PubMed:22351768, PubMed:18981471). From the beginning to the end of mitosis, it is seen to move from a diffusely nuclear distribution to the centrosome, to the spindle midzone and finally to the midbody (PubMed:9546394). Localizes to kinetochores during prometaphase (PubMed:22351768, PubMed:29162720). Does not localize to kinetochores during metaphase (PubMed:29162720) Colocalizes with NEK2 at the kinetochore (PubMed:14978040). Colocalizes with IK at spindle poles during metaphase and anaphase (PubMed:22351768).

**Tissue Location**

[Isoform 1]: Expressed in hepatocellular carcinomas and hepatoma cell lines (at protein level)

**MAD1L1 Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**MAD1L1 Antibody (N-term) Blocking peptide - Images****MAD1L1 Antibody (N-term) Blocking peptide - Background**

MAD1L1 is a component of the mitotic spindle-assembly checkpoint that prevents the onset of anaphase until all chromosome are properly aligned at the metaphase plate. MAD1L1 functions as a homodimer and interacts with MAD2L1. MAD1L1 may play a role in cell cycle control and tumor suppression. Three transcript variants encoding the same protein have been found for this gene. [provided by RefSeq].

**MAD1L1 Antibody (N-term) Blocking peptide - References**

Shimada, M., et al. Hum. Genet. 128(4):433-441(2010) Guo, Y., et al. J. Med. Genet. 47(9):616-622(2010) Wang, H.B., et al. J. Gastrointest. Surg. 14(8):1227-1234(2010) Hewitt, L., et al. J. Cell Biol. 190(1):25-34(2010) Ge, Z., et al. FASEB J. 24(2):579-586(2010)