

# MAD1L1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12347a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q9Y6D9</a>
<b>Other Accession</b>	<a href="#">NP_001013859.1</a> , <a href="#">NP_001013858.1</a> , <a href="#">NP_003541.2</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB20598
<b>Calculated MW</b>	83067
<b>Antigen Region</b>	124-151

## Additional Information

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<b>Gene ID</b>	8379
<b>Other Names</b>	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
<b>Target/Specificity</b>	This MAD1L1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 124-151 amino acids from the N-terminal region of human MAD1L1.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	MAD1L1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	MAD1L1
<b>Synonyms</b>	MAD1, TXBP181

<b>Function</b>	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="#">10049595</a> , PubMed: <a href="#">20133940</a> , PubMed: <a href="#">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="#">29162720</a> ).
<b>Cellular Location</b>	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:18981471, PubMed:22351768). 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).
<b>Tissue Location</b>	[Isoform 1]: Expressed in hepatocellular carcinomas and hepatoma cell lines (at protein level)

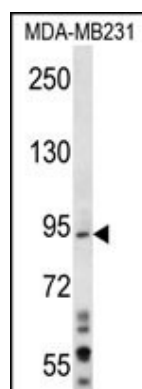
## Background

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].

## 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)

## Images



MAD1L1 Antibody (N-term) (Cat. #AP12347a) western blot analysis in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the MAD1L1 antibody detected the MAD1L1 protein (arrow).

## Citations

- [Kinetochore protein MAD1 participates in the DNA damage response through ataxia-telangiectasia mutated kinase-mediated phosphorylation and enhanced interaction with KU80](#)

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