



MAD1 Rabbit mAb

Catalog No	YP-rAb-18516
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IF,ELISA
Gene Name	MAD1L1
Protein Name	Mitotic spindle assembly checkpoint protein MAD1
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000;
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	MAD1;Mitotic spindle assembly checkpoint protein MAD1;MAD1L1 ; MAD1 ; TXBP181 ; 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
Observed Band	83kD
Calculated Molecular Weight	83kD
Cell Pathway	Nucleus . Chromosome, centromere, kinetochore . Nucleus envelope . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Cytoplasm, cytoskeleton, spindle . Cytoplasm, cytoskeleton, spindle pole . 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). Colocalize s with IK at spindle poles during metaphase and anaphase (PubMed:22351768). .; [Isoform 3]: Cytoplasm .
Tissue Specificity	[Isoform 1]: Expressed in hepatocellular carcinomas and hepatoma cell lines (at protein level). ; [Isoform 3]: Expressed in hepatocellular carcinomas and hepatoma cell lines (at protein level).



Function

Disease: Defects in MAD1L1 are involved in the development and/or progression of various types of cancer. **Function:** Component of the spindle-assembly checkpoint that prevents the onset of anaphase until all chromosomes are properly aligned at the metaphase plate. May recruit MAD2L1 to unattached kinetochores. Has a role in the correct positioning of the septum. Required for anchoring MAD2L1 to the nuclear periphery. **induction:** Increased by TP53. **PTM:** Phosphorylated; by BUB1. Become hyperphosphorylated in late S through M phases or after mitotic spindle damage. Phosphorylated upon DNA damage, probably by ATM or ATR. **similarity:** Belongs to the MAD1 family. **subcellular location:** 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. **subunit:** Homodimer. Heterodimerizes with MAD2L1 in order to form a tetrameric MAD1L1-MAD2L1 core complex. Perturbation of the original MAD1L1-MAD2L1 structure by the spindle checkpoint may decrease MAD2L1 affinity for MAD1L1. CDC20 can compete with MAD1L1 for MAD2L1 binding, until the attachment and/or tension dampen the checkpoint signal, preventing further release of MAD2L1 on to CDC20. Also able to interact with the BUB1/BUB3 complex and the viral Tax protein. Interacts with TPR. **tissue specificity:** Expressed weakly at G0/G1 and highly at late S and G2/M phase.

Background

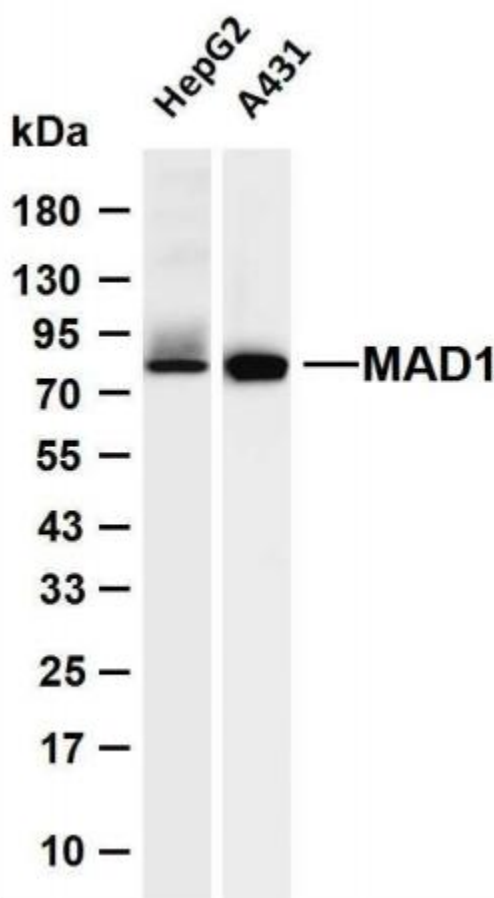
MAD1L1 is a component of the mitotic spindle-assembly checkpoint that prevents the onset of anaphase until all chromosome are properly aligned at the metaphase plate. MAD1L1 functions as a homodimer and interacts with MAD2L1. MAD1L1 may play a role in cell cycle control and tumor suppression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-MAD1 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HepG2 Lane 2: A431 Predicted band size: 83kDa Observed band size: 83kDa





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