

MAD2 Polyclonal Antibody

Catalog No :	YT2618
Reactivity :	Human;Mouse
Applications :	WB;IP;ELISA
Target :	MAD2
Fields :	>>Cell cycle;>>Oocyte meiosis;>>Progesterone-mediated oocyte maturation;>>Human T-cell leukemia virus 1 infection
Gene Name :	MAD2L1
Protein Name :	Mitotic spindle assembly checkpoint protein MAD2A
Human Gene Id :	4085
Human Swiss Prot No :	Q13257
Mouse Swiss Prot No :	Q9Z1B5
Immunogen :	The antiserum was produced against synthesized peptide derived from human MAD2L1. AA range:91-140
Specificity :	MAD2 Polyclonal Antibody detects endogenous levels of MAD2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IP 1:200-500 ELISA: 1:5000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 25kD

Cell Pathway : Cell_Cycle_G1S;Cell_Cycle_G2M_DNA;Oocyte meiosis;Progesterone-mediated oocyte maturation;

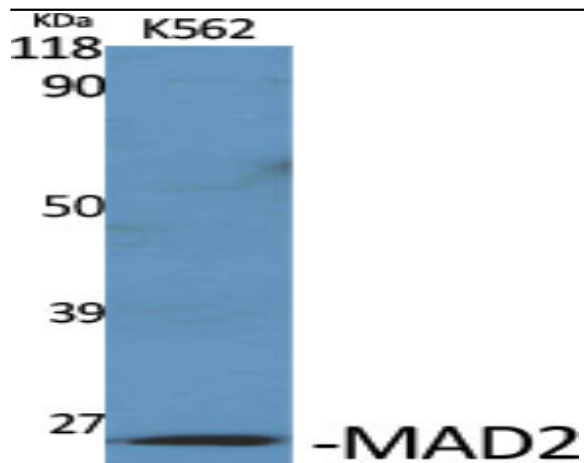
Background : MAD2L1 is a component of the mitotic spindle assembly checkpoint that prevents the onset of anaphase until all chromosomes are properly aligned at the metaphase plate. MAD2L1 is related to the MAD2L2 gene located on chromosome 1. A MAD2 pseudogene has been mapped to chromosome 14. [provided by RefSeq, Jul 2008],

Function : domain:The protein has two highly different native conformations, an inactive open conformation that cannot bind CDC20 and that predominates in cytosolic monomers, and an active closed conformation. The protein in the closed conformation preferentially dimerizes with another molecule in the open conformation, but can also form a dimer with a molecule in the closed conformation. Formation of a heterotetrameric core complex containing two molecules of MAD1L1 and of MAD2L1 in the closed conformation promotes binding of another molecule of MAD2L1 in the open conformation and the conversion of the open to the closed form, and thereby promotes interaction with CDC20.,function: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 p

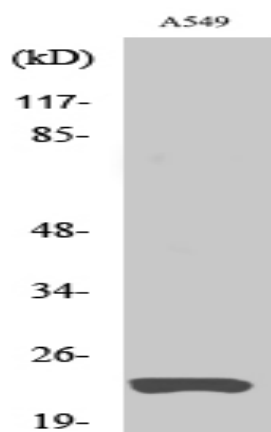
Subcellular Location : Nucleus . Chromosome, centromere, kinetochore. Cytoplasm . Cytoplasm, cytoskeleton, spindle pole. Recruited by MAD1L1 to unattached kinetochores (Probable). Recruited to the nuclear pore complex by TPR during interphase. Recruited to kinetochores in late prometaphase after BUB1, 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). .

Expression : Bone marrow,Brain,Hepatoma,Lung,Muscle,Testis,

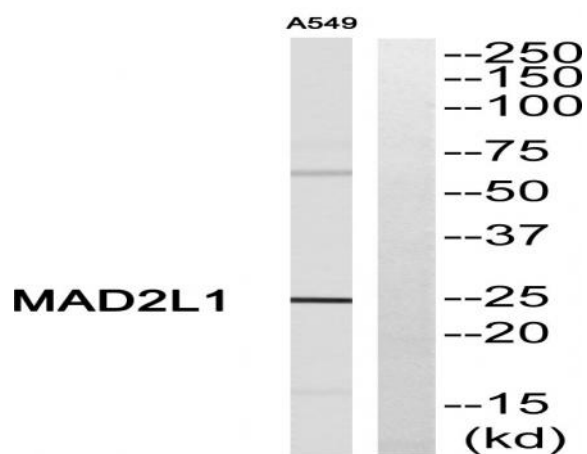
Products Images



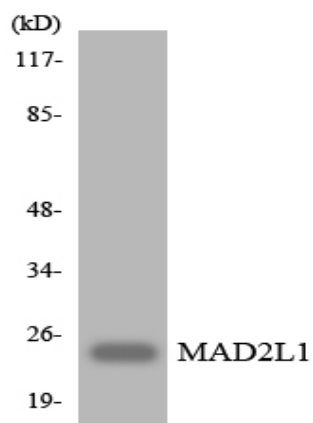
Western Blot analysis of various cells using MAD2 Polyclonal Antibody diluted at 1:1000



Western Blot analysis of A549 cells using MAD2 Polyclonal Antibody diluted at 1:1000



Western blot analysis of MAD2L1 Antibody. The lane on the right is blocked with the MAD2L1 peptide.



Western blot analysis of the lysates from HUVEC cells using MAD2L1 antibody.