Product Name: MAD2 Rabbit Polyclonal Antibody
Catalog #: APRab13553

Summary

Production Name	MAD2 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IP,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	MAD2L1
Alternative Names	MAD2L1; MAD2; Mitotic spindle assembly checkpoint protein MAD2A; HsMAD2; Mitotic arrest deficient 2-like protein 1; MAD2-like protein 1
Gene ID	4085.0
SwissProt ID	Q13257.The antiserum was produced against synthesized peptide derived from human MAD2L1. AA range:91-140

Application

Dilution Ratio	WB 1:500-1:2000, IP 1:200-500, ELISA 1:5000.Not yet tested in other applications.
Molecular Weight	25kDa

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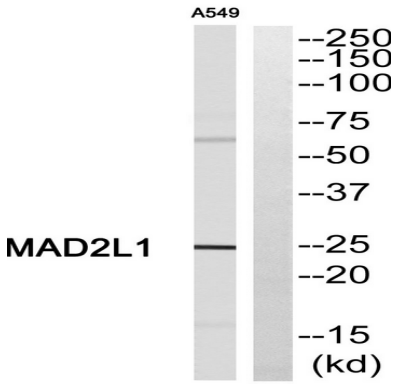
Background

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],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 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.,PTM:Phosphorylated on multiple serine residues. The level of phosphorylation varies during the cell cycle and is highest during mitosis. Phosphorylation abolishes interaction with MAD1L1 and reduces interaction with CDC20.,similarity:Belongs to the MAD2 family.,similarity:Contains 1 HORMA domain.,subcellular location:Recruited by MAD1L1 to unattached kinetochores (Probable). Recruited to the nuclear pore complex by TPR during interphase.,subunit:Monomer and homodimer. Heterotetramer with MAD1L1. Formation of a heterotetrameric core complex containing two molecules each of MAD1L1 and of MAD2L1 promotes binding of another molecule of MAD2L1 to each MAD2L1, resulting in a heterohexamer. Interacts with CDC20, MAD2L1BP and with ADAM17/TACE. Dimeric MAD2L1 in the closed conformation interacts with CDC20. Monomeric MAD2L1 in the open conformation does not interact with CDC20. CDC20 competes with MAD1L1 for MAD2L1 binding. Interacts with TPR.,

Research Area

Cell_Cycle_G1S;Cell_Cycle_G2M_DNA;Oocyte meiosis;Progesterone-mediated oocyte maturation;

Image Data



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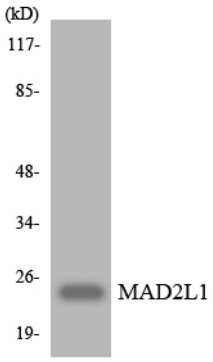
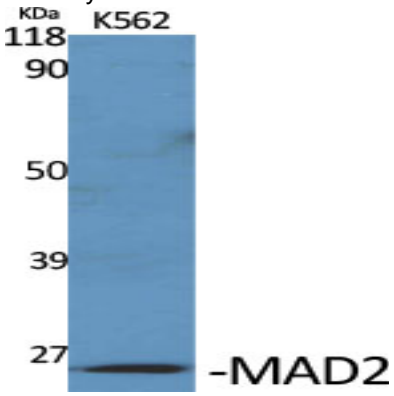
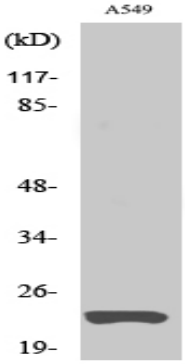
Western blot analysis of MAD2L1 Antibody. The lane on the right is blocked with the MAD2L1 peptide.



Western blot analysis of the lysates from HUVECcells using MAD2L1 antibody.



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

Note

For research use only.