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MAD2L2 Recombinant Mouse mAb

Catalog # AP96369

Product Information

Application	WB
Reactivity	Human, Mouse
Host	Mouse
Clonality	Recombinant
Physical State	Liquid
Isotype	IgG2b/Kappa
Purity	affinity purified by Protein G
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 HORMA domain.
SUBUNIT	Homooligomer (Probable). Interacts with REV1. Interacts with ADAM9. Interacts with CHAMP1. Interacts with REV3L. Interacts with FZR1 (in complex with the anaphase promoting complex APC). Interacts with CDC20; PubMed:11459825 could not detect the interaction. Interacts with RAN. Interacts with ELK1; the interaction is direct and recruits MAD2L2 to ELK1-specific promoters. May interact with the JNK kinases MAPK8 and/or MAPK9 to stimulate ELK1 phosphorylation and transcriptional activity upon DNA damage. Interacts with TCF7L2; prevents its binding to promoters and negatively modulates its transcriptional activity. Interacts with YY1AP1. Interacts with S. flexneri protein ipaB; prevents the interaction of MAD2L2 with FZR1 and CDC20 resulting in an activation of the anaphase-promoting complex APC and a cell cycle arrest. Interacts with PRCC; the interaction is direct. Interacts with POGZ.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	MAD2L2 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. MAD2L2 is a homolog of MAD2L1.

Additional Information

Other Names	FANCV; MAD2B; POLZ2; REV7; mitotic arrest deficient 2 like 2; MAD2 (mitotic arrest deficient, yeast, homolog)-like 2; mitotic arrest deficient homolog-like 2; polymerase (DNA-directed), zeta 2, accessory subunit
Dilution	WB=1:500-1000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Name	MAD2L2 Recombinant Mouse mAb
Function	Adapter protein able to interact with different proteins and involved in

different biological processes. Mediates the interaction between the error-prone DNA polymerase zeta catalytic subunit REV3L and the inserter polymerase REV1, thereby mediating the second polymerase switching in translesion DNA synthesis. Translesion DNA synthesis releases the replication blockade of replicative polymerases, stalled in presence of DNA lesions. May also regulate another aspect of cellular response to DNA damage through regulation of the JNK-mediated phosphorylation and activation of the transcriptional activator ELK1. Inhibits the FZR1- and probably CDC20-mediated activation of the anaphase promoting complex APC thereby regulating progression through the cell cycle. Regulates TCF7L2-mediated gene transcription and may play a role in epithelial-mesenchymal transdifferentiation.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.