
anti-MAD2

Cat #: HM 1215
Goat polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

APPLICATIONS

MAD2 (mitotic arrest-deficient) is a component of the mitotic spindle checkpoint. The spindle checkpoint prevents the onset of anaphase until all chromosomes are properly aligned at the metaphase plate. Incorrect spindle assembly in normal cells leads to mitotic arrest. Cells with mutated MAD2 do not undergo mitotic arrest in response to incorrect spindle fiber assembly, which results in missegregation and eventual cell death. The checkpoint works by inhibiting the activity of the anaphase promoting complex, thereby preventing the degradation of several cell cycle regulators.

SPECIFICITY

This antibody specifically reacts with MAD2 of human, rat and mouse origin.

The antibody can be used in Western blotting, immunoprecipitation and immunohistochemistry.

IMMUNOGEN

Recombinant human MAD2 protein.

STORAGE

This antibody is stable for 24 months when stored at 2-8°C.

REFERENCES

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3. Li, Y. and Benezra, R. 1996. Identification of a human mitotic checkpoint gene: hsMAD2. *Science* 274: 246-248.
4. Chen, R.H., Waters, J.C., Salmon, E.D., and Murray, A.W. 1996. Association of spindle assembly checkpoint component XMAD2 with unattached kinetochores. *Science* 274: 242-246.
5. O'Neill, T.J., Zhu, Y., and Gustafson, T.A. 1997. Interaction of MAD2 with the carboxyl terminus of the insulin receptor but not with the IGFIR. Evidence for release from the insulin receptor after activation. *J. Biol. Chem.* 272: 10035-10040.

6. Martin-Lluesma, S., Stucke, V.M. and Nigg, E.A. 2002. Role of Hecl in spindle checkpoint signaling and kinetochore recruitment of Mad1/Mad2. *Science* 297, 2267-2270.

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