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**anti-Dmc1**

Cat #: HM1114  
Goat polyclonal IgG  
0.2 µg/µl, store at 4 °C

For research use only

**BACKGROUND**

DNA repair proteins are necessary for the maintenance of chromosome integrity and are involved in the elimination of premutagenic lesions from DNA. Many proteins are involved in this process, including Rad51, Rad52, Dmc1 and nibrin. Dmc1 is structurally and evolutionary related to the products of the yeast RAD51 and E. coli RecA genes. It is essential for meiotic homologous recombination.

**SPECIFICITY**

This antibody reacts with Dmc1 of mouse, rat and human origin by Western blotting, immunoprecipitation and immunohistochemistry.

**IMMUNOGEN**

Recombinant human Dmc1 protein.

**STORAGE**

This antibody is stable for 12 months when stored at 2-8°C.

**REFERENCES**

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3. Yoshida, K., Kondoh, G., Matsuda, Y., Habu, T. Nishimune, Y., and Morita, T. 1998. The mouse RecA-like gene Dmc1 is required for homologous chromosome synapsis during meiosis. *Mol. Cell* 1: 707-718.
4. Carney, J.P., Maser, R.S., Olivares, H., Davis, E.M., Le Beau, M., Yates, J.R. III, Hays, L., Morgan, W.F., and Petrini, J.H. 1998. The hMre11/hRad50 protein complex and Nijmegen breakage syndrome: linkage of double-strand break repair to the cellular DNA damage response. *Cell* 93: 477-486.

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