

DMC1 Antibody

Mouse Monoclonal Antibody [Clone 2H12/4]

| Catalog No | Format | Size |
|------------------|---|--------|
| 11144-MSM1-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 11144-MSM1-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 11144-MSM1-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

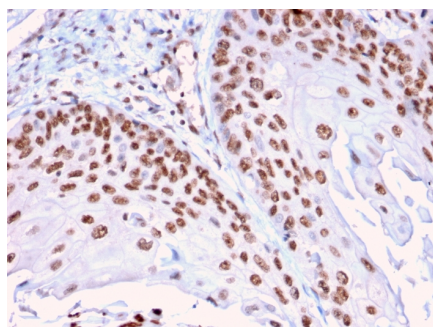
| Applications | Tested Dillution | Note |
|----------------------------|------------------|---|
| Immunofluorescence (IF) | 1-3ug/ml | |
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |
| Western Blot (WB) | 2-4ug/ml | |

Product Details

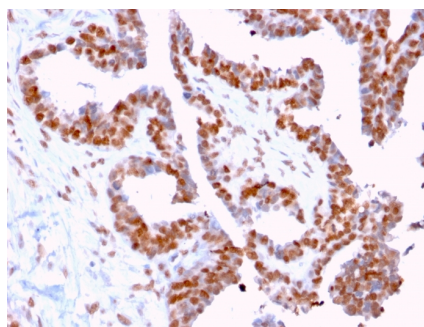
| | |
|-------------------------------|---|
| Clone | 2H12/4 |
| Gene Name | DMC1 |
| Immunogen | Recombinant full-length human DMC1 protein. |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype / Light Chain | IgG2a / Kappa |
| Mol. Weight of Antigen | 37kDa |
| Cellular Localization | Chromosome, Nucleus |
| Species Reactivity | Cow, Human, Mouse, Rat |
| Positive Control | HeLa cells. Cervix or prostate. |

*Optimal dilution for a specific application should be determined.

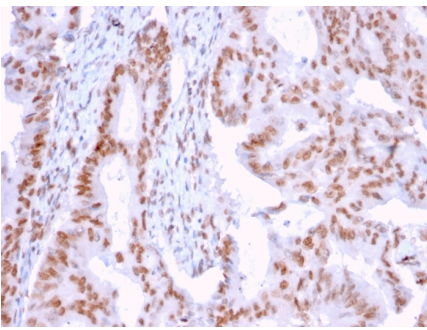
Product Images for DMC1 Antibody



Formalin-fixed, paraffin-embedded human Cervical Carcinoma stained with CLEC9A Mouse Monoclonal Antibody (2H12/4).



Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with CLEC9A Mouse Monoclonal Antibody (2H12/4).



Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with CLEC9A Mouse Monoclonal Antibody (2H12/4).

Specificity & Comments

DNA repair proteins are necessary for the maintenance of chromosome integrity and are involved in the elimination of premutagenic lesions from DNA. The DNA repair proteins Rad51 and Rad52 are key components of the double-strand-break repair (DSBR) pathway. Rad51 is essential for mitotic and meiotic recombination, and its mutation in yeast and mammalian cells results in chromosome loss. Overexpression of Rad52 confers resistance to ionizing radiation and induces homologous intrachromosomal recombination. Rad52 is thought to be involved in an early stage of Rad51-mediated recombination. Additional proteins involved in the pathway include Nibrin and Dmc1. Nibrin, which complexes with Mre11 and Rad50, is absent in Nijmegen breakage syndrome (NBS) patients. Dmc1 is specifically involved in meiotic recombination. An alternative spliced form of Dmc1, designated Dmc1-D, is deleted for a region between the two motifs involved in nucleotide binding. The alternatively spliced Dmc1-D transcript is detected in both male and female germ cells, indicating that the encoded protein may have a role in mammalian genetic recombination in meiosis.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Nuclear Marker