

Datasheet for ABIN6939141  
**anti-DMC1 antibody**

3 Images



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### Overview

Quantity:	100 µg
Target:	DMC1
Reactivity:	Human, Mouse, Rat, Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This DMC1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Staining Methods (StM)

### Product Details

Immunogen:	Recombinant full-length human DMC1 protein.
Clone:	2H12-4
Isotype:	IgG2a kappa
Purification:	Purified by Protein A/G

### Target Details

Target:	DMC1
Alternative Name:	DMC1 ( <a href="#">DMC1 Products</a> )
Background:	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 doublestrand-break repair (DSBR) pathway. Rad51 is

## Target Details

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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.

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Molecular Weight: 37kDa

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Gene ID: 11144

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UniProt: [Q14565](#)

## Application Details

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Application Notes: Positive Control: HeLa cells. Cervix or prostate.  
Known Application: Immunofluorescence (0.5-1 µg/mL), Western Blot (0.5-1.0 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

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Restrictions: For Research Use only

## Handling

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Concentration: 200 µg/mL

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Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

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Preservative: Sodium azide

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

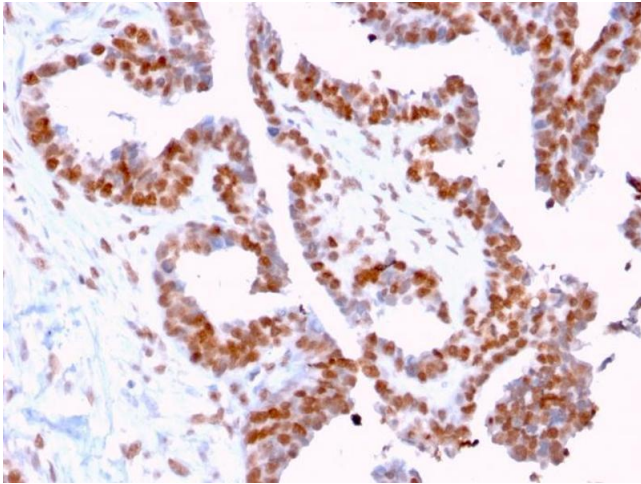
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Storage: 4 °C,-80 °C

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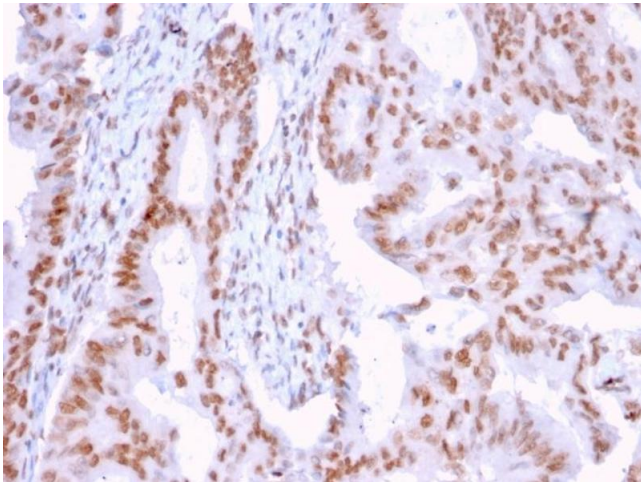
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

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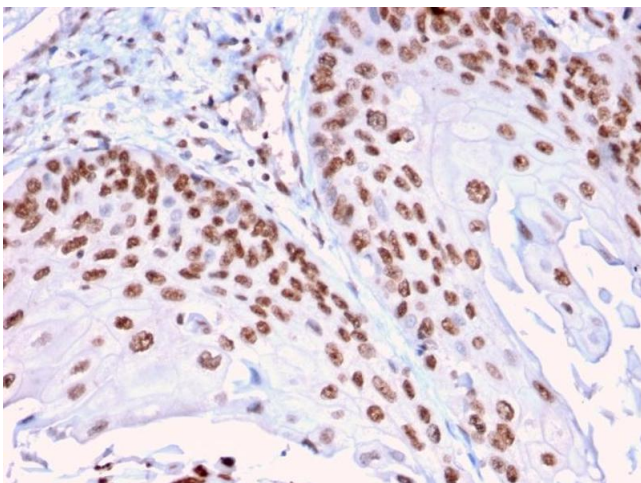
#### Immunohistochemistry

**Image 1.** Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with CLEC9A Mouse Monoclonal Antibody (2H12/4).



#### Immunohistochemistry

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



#### Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human Cervical Carcinoma stained with CLEC9A Mouse Monoclonal Antibody (2H12/4).