

Mouse DMC1 Monoclonal Antibody | anti-DMC1 antibody

DMC1

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214893	Mouse	Human, Mouse, Rat, Cow	Immunohistochemistry, Western Blot, Immunofluorescence

PRODUCT SYNONYMS

DMC1; Monoclonal Antibody; Disrupted meiotic cDNA 1 homolog; dJ199H16.1; DMC1 dosage suppressor of mck1 homolog; DMC1H; DNA meiotic recombinase 1; HsLim15; LIM15; Meiotic recombination protein DMC1/LIM15 homolog; MGC150472; MGC150473; anti-DMC1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat, Cow
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	2H12/4
Specificity	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 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.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	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.
Sequence Length	340
Applicable Applications for anti-DMC1 antibody	IHC (Immunohistochemistry), WB (Western Blot), IF (Immunofluorescence)
Positive Control	HeLa cells. Cervix or prostate.
Immunogen	Recombinant full-length human DMC1 protein.
Cellular Localization	Nucleus. Chromosome.
Hu-chromosome Location	22q13.1
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



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



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



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

ADDITIONAL INFORMATION

References	Morita, T., et al. 1993. Proc. Natl. Acad. Sci. USA 90: 6577-6580.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	23238219
NCBI GeneID	11144
NCBI Accession #	NP_008999.2
NCBI GenBank Nucleotide #	NP_008999.2
UniProt Accession #	Q14565
Molecular Weight	37kDa
NCBI Official Full Name	meiotic recombination protein DMC1/LIM15 homolog isoform 1
NCBI Official Synonym Full Names	DNA meiotic recombinase 1
NCBI Official Symbol	DMC1
NCBI Official Synonym Symbols	DMC1H; LIM15; dJ199H16.1
NCBI Protein Information	meiotic recombination protein DMC1/LIM15 homolog
UniProt Protein Name	Meiotic recombination protein DMC1/LIM15 homolog
UniProt Gene Name	DMC1
UniProt Synonym Gene Names	DMC1H; LIM15

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.