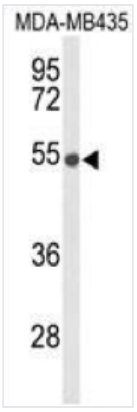
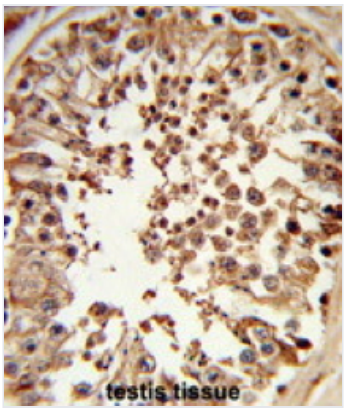
DMC1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DMC1, Polyclonal Antibody
Full Product Name	DMC1, NT (DMC1, DMC1H, LIM15, Meiotic recombination protein DMC1/LIM15 homolog) (MaxLight 405)
Product Gene Name	anti-DMC1 antibody
Product Synonym Names	DMC1; DMC1H; LIM15; Meiotic recombination protein DMC1/LIM15 homolog
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human DMC1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	31,559 Da
3D Structure	ModBase 3D Structure for Q14565
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 1-30 in the N-terminal region of human DMC1.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-DMC1 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-DMC1 antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB), Flow Cytometry (FC/FACS), FLISA
Application Notes for anti-DMC1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-DMC1 antibody	MBS6292415 is an antibody targeting DMC1. Also known as DMC1, NT (DMC1, DMC1H, LIM15, Meiotic recombination protein DMC1/LIM15 homolog) (MaxLight 405). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-DMC1 antibody	1. Volodin, A.A. J. Biol. Chem. 284 (3), 1495-1504 (2009). 2. Hikiba, J.FEBS J. 276 (2), 457-465 (2009). 3. Hikiba, J. Nucleic Acids Res. 36 (12), 4181-4190 (2008).
Other Notes	Small volumes of anti-DMC1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-DMC1 antibody
Western Blot analysis in MDA-MB435 cell line lysates (35ug/lane) usingMBS6000508. DMC1 (arrow) was detected usingMBS6000508.



Immunohistochemistry (IHC) of anti-DMC1 antibody
Immunohistochemistry analysis in formalin-fixed and paraffin-embedded human testis tissue usingMBS6000508, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of MBS6000508 for immunohistochemistry.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DMC1. It may not necessarily be applicable to this product.

NCBI GI #	23238219
NCBI GeneID	11144
NCBI Accession #	NP_008999.2
UniProt Primary Accession #	Q14565
UniProt Secondary Accession #	Q08AI1; Q99498; Q9UH11; A8K9A2; B4DMW6
UniProt Related Accession #	Q14565
GenBank Nucleotide #	NM_007068.4
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
UniProt Protein Name	Meiotic recombination protein DMC1/LIM15 homolog
Protein Family	Meiotic recombination protein
UniProt Gene Name	DMC1
UniProt Synonym Gene Names	DMC1H; LIM15
NCBI Protein Information	meiotic recombination protein DMC1/LIM15 homolog
NCBI Summary for DMC1	This gene encodes a member of the superfamily of recombinases (also called DNA strand-exchange proteins). Recombinases are important for repairing double-strand DNA breaks during mitosis and meiosis. This protein, which is evolutionarily conserved, is reported to be essential for meiotic homologous recombination and may thus play an important role in generating diversity of genetic information. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]
UniProt Comments for DMC1	May participate in meiotic recombination, specifically in homologous strand assimilation, which is required for the resolution of meiotic double-strand breaks.
Research Articles on DMC1	**1.** Data indicate that ahomologous pairing by DMC1 protein or RAD51 recombinase in chromatin containing nucleosome-depleted double-stranded DNA (dsDNA) regions.

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