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Datasheet for ABIN2812416

anti-DMC1 antibody (AA 251-340) (AbBy Fluor® 594)

Overview

Quantity:	100 µL
Target:	DMC1
Binding Specificity:	AA 251-340
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DMC1 antibody is conjugated to AbBy Fluor® 594
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human DMC1
Isotype:	IgG
Predicted Reactivity:	Human, Mouse, Rat, Cow, Pig, Horse, Chicken
Purification:	Purified by Protein A.

Target Details

Target:	DMC1
Alternative Name:	DMC1 (DMC1 Products)
Background:	Synonyms: disrupted meiotic cDNA 1 homolog, dJ199H16.1, DMC 1, DMC1 dosage suppressor

Target Details

of mck1 homolog, DMC1 dosage suppressor of mck1 homolog meiosis specific homologous recombination yeast, DMC1 homologue, DMC1H, HsLim15, LIM15, Meiotic recombination protein DMC1/LIM15 homolog, MGC150472, MGC150473, DMC1_HUMAN.

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 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.

Gene ID: 11144

Application Details

Application Notes: IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

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

Handling

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months