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DMC1 Antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI16148

Product Information

Application	WB
Primary Accession	Q14565
Other Accession	NP_008999
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37681

Additional Information

Gene ID	11144
Alias Symbol	DMC1, DMC1H, LIM15,
Other Names	Meiotic recombination protein DMC1/LIM15 homolog, DMC1, DMC1H, LIM15
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 &mu, l of distilled water. Final Anti-DMC1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.
Precautions	DMC1 Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DMC1 {ECO:0000303|PubMed:8602360, ECO:0000312|HGNC:HGNC:2927}
Function	Homologous DNA recombinase that catalyzes strand exchange during meiotic recombination (PubMed:15164066, PubMed:21307306, PubMed:26976601). Specifically required for meiotic recombination, facilitating the search and repair of DNA using the homolog rather than the sister chromatid, and can tolerate mismatches in heteroduplex DNA, unlike the higher-fidelity RAD51 (PubMed:15164066, PubMed:26976601).
Cellular Location	Chromosome. Nucleus. Note=Binds single-stranded DNA (ssDNA) near the break site. {ECO:0000250|UniProtKB:Q61880}

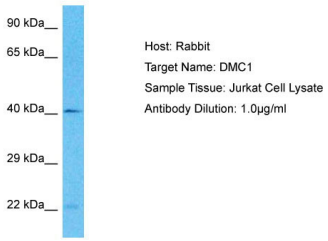
Background

May participate in meiotic recombination, specifically in homologous strand assimilation, which is required for the resolution of meiotic double-strand breaks.

References

Sato S.,et al.DNA Res. 2:183-185(1995).
Habu T.,et al.Nucleic Acids Res. 24:470-477(1996).
Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Dunham I.,et al.Nature 402:489-495(1999).

Images



Host: Rabbit
Target Name: DMC1
Sample Tissue: Jurkat Whole Cell lysates
Antibody Dilution: 1.0µg/ml

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.