

Product datasheet

Anti-DMC1 antibody [2H12/4] ab11054

★★★★★ [3 Abreviews](#) [24 References](#) [1 Image](#)

Overview

Product name	Anti-DMC1 antibody [2H12/4]
Description	Mouse monoclonal [2H12/4] to DMC1
Host species	Mouse
Specificity	Specific for DMC1 - does not cross-react with the related protein Rad51. The antibody was tested on mouse meiotic chromosomes. It allowed localisation of the Dmc1 protein as numerous foci in the Leptotene and Zygotene stages of meiotic prophase, and fewer foci in the early Pachytene stage of meiotic prophase.
Tested applications	Suitable for: IP, WB, IHC-P, Flow Cyt, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Cow, Human
Immunogen	Recombinant fusion protein (Human).
Positive control	ICC:mouse meiotic chromosomes
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: 99.98% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	2H12/4
Myeloma	Sp2/0-Ag14

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab11054 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
WB	★★★★★ (1)	Use at an assay dependent concentration.
IHC-P	★★★★★ (1)	Use at an assay dependent concentration.
Flow Cyt		Use 1µg for 10 ⁶ cells. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★☆☆ (1)	Use at an assay dependent concentration. Fix cells using a 4% paraformaldehyde solution and permeabilize using SDS (0.03% in a 4% paraformaldehyde solution). Incubate antibody overnight.

Target

Function

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

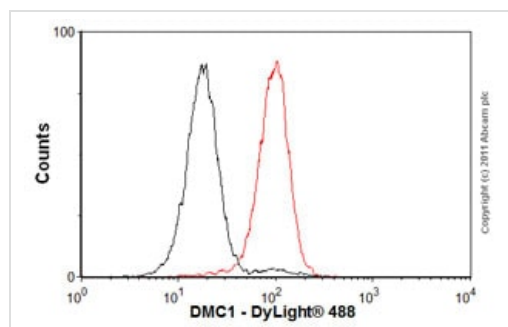
Sequence similarities

Belongs to the RecA family. DMC1 subfamily.
Contains 1 HhH domain.

Cellular localization

Nucleus. Chromosome.

Images



Flow Cytometry - Anti-DMC1 antibody [2H12/4]
(ab11054)

Overlay histogram showing HeLa cells stained with ab11054 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab11054, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] (**ab91361**, 1µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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