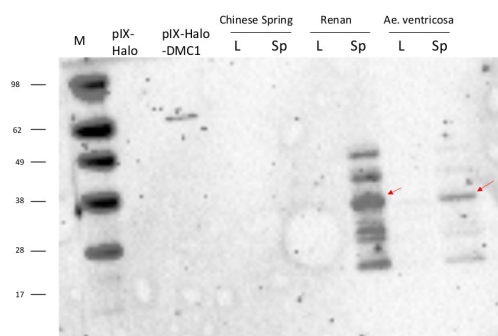


Product no **AS23 4964****Anti-DMC1 | Disruption of meiotic control 1****Product information**

Immunogen	KLH-conjugated peptide derived from protein sequence of DMC1 of <i>Arabidopsis thaliana</i> , UniProt: Q39009 GeneID: At3g22880
Host	Rabbit
Clonality	Polyclonal
Purity	Antigen affinity purified serum, in PBS pH 7.4
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution, add 50 µl of sterile or deionized water.
Storage	Store lyophilized/reconstituted at -20 °C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

Application information

Recommended dilution	1 : 5000 (WB)
Expected apparent MW	38 kDa
Confirmed reactivity	<i>Triticum aestivum</i>
Predicted reactivity	<i>Arabidopsis thaliana</i> , <i>Brassica napus</i> , <i>Daucus carota</i> , <i>Hordeum vulgare</i> , <i>Nicotiana tabacum</i> , <i>Oryza sativa</i> , <i>Solanum lycopersicum</i> , <i>Solanum tuberosum</i> , <i>Zea mays</i> . Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	DMC1 protein is only expressed in meiotic cells. Total cell extract from leaves can be used as a negative control.
Selected references	To be added when available, antibody released in February 2026.

**Samples:**

pIX-Halo - negative control

pIX-Halo-DMC1 - overexpressed DMC1 with Halo tag

Different wheat (*Triticum aestivum*) varieties

L: Leaves (negative control)

Sp: Spike

Expected size for recombinant DMC1-Halo protein: 72 kDa

Expected size for DMC1 protein: 38 kDa

5 µg/well of nuclear protein extracted freshly from wheat cultivars leaves (L) and immature spikes (S). Exact buffer components were: laemmli 4X, DTT 10X and denatured with exact buffer components at 90 °C 5 min. Samples were separated in the cold on 4-12 % NuPAGE and blotted for 7 min iBlot™ 2 Transfer Stacks, nitrocellulose (pore size of 0.2 µm), using: dry transfer in the cold. Blot was blocked with StartingBlock™ Blocking Buffer for: 30 min RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 5 000 for 1h/RT with agitation in TBS-T with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in TBS-T at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:



This product is **for research use only** (not for diagnostic or therapeutic use)

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20 000 in for 1h/RT with agitation. The blot was washed as above and developed with a following chemiluminescent detection reagent: SuperSignal™ West Pico PLUS Chemiluminescent Substrate and Thermoscientific. Exposure time was minutes.

Note: background signal can be decreased by increasing the length of blocking time to ON/4C.

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