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Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

Product no AS21 4560

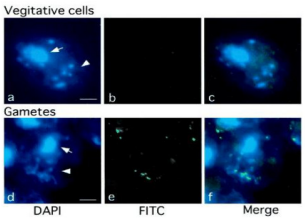
Anti-5MeC | 5-Methylcytosine (clone 5MC-CD) biotinylated

Product information

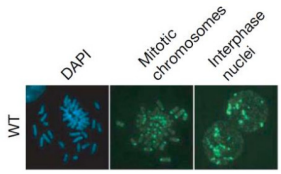
Immunogen	BSA-conjugated 5-Methylcytosine
Host	Mouse
Clonality	Monoclonal
Subclass/isotype	IgM
Purity	Purified IgM with chromatography from hybridoma cell culture medium.
Format	Liquid, in PBS contains 50 % glycerol.
Quantity	50 µg at 1 µg/µl
Storage	Store at -20°C; make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

Application information

Recommended dilution	1 : 1000 (WB), 1:50-1:100 (ICC)
Confirmed reactivity	*Chlamydmonas* me-1 cells, mouse embryonic stem cells
Predicted reactivity	DNA with 5-Methylcytosine (methylated DNA)



Methylation of chloroplast DNA of *Chlamydomonas* me-1 cells, visualized by anti-5-methylcytosine antibodies.
Left: DAPI stained cells. Middle: Cells stained with anti-5MeC antibodies, followed by secondary anti-mouse IgM, FITC conjugated secondary antibodies, Right: Merged image.
Chloroplast DNA is exclusively methylated in gamete cells. Described in Nishiyama et al. 2002.



Intense 5-methylcytosine staining at pericentromeric regions of mouse embryonic stem cells was seen in the mitotic chromosome and interphase nuclei of ESCs. Described in Sharif et al. 2007.