

Anti-5-methylcytosine (5-mC) antibody [5MC-CD] ab73938

★★★★☆ [2 Abreviews](#) [29 References](#) [2 图像](#)

概述

产品名称	Anti-5-methylcytosine (5-mC)抗体[5MC-CD]
描述	小鼠单克隆抗体[5MC-CD] to 5-methylcytosine (5-mC)
宿主	Mouse
特异性	ab73938 reacts with DNA with 5-Methylcytosine (methylated DNA).
经测试应用	适用于: Southern Blot, ICC/IF
种属反应性	与反应: Species independent
免疫原	Chemical/ Small Molecule corresponding to 5-methylcytosine (5-mC) conjugated to Bovine Serum Albumin (BSA).
阳性对照	Chlamidomonas me-1 cells.
常规说明	<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>

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	pH: 6 Constituents: 50% Glycerol (glycerin, glycerine), PBS
纯化说明	ab73938 is purified and filter-sterilised.
克隆	单克隆
克隆编号	5MC-CD
同种型	IgM

The Abpromise guarantee **Abpromise™**承诺保证使用ab73938于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

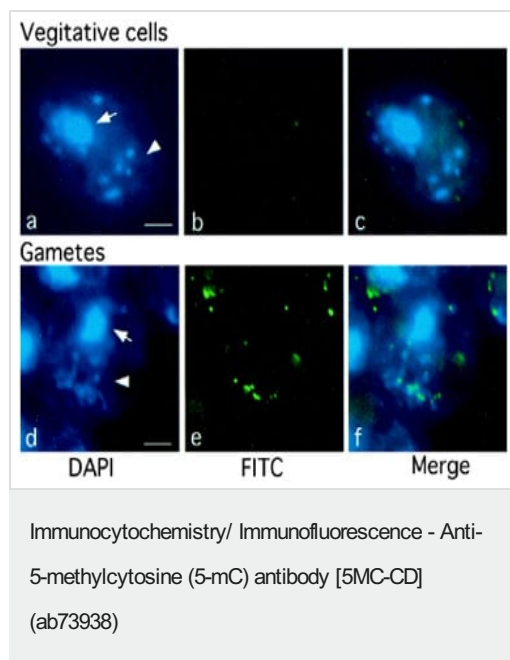
应用	Ab评论	说明
Southern Blot		1/1000. Immunoblotting - detection of DNA with 5-methylcytosine on nitrocellulose. Use at 1/1000
ICC/IF	★☆☆☆☆ (1)	1/50 - 1/100. Recommend fixing in 4% PFA followed by denaturation with 70% formamide in 2x SSC and chilling in 70%, 95%, and 99% EtOH for 2 min each. Diluting antibody in SSC (saline sodium citrate) may give optimal results. See protocols from PubMed: 11983892 and 17994007

靶标

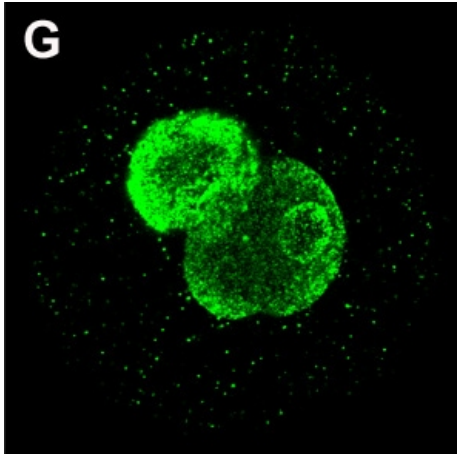
形式

The native context of double-stranded DNA may obstruct antibody binding to 5-methylcytosine. For successful detection of 5-methylcytosine, we recommend that the DNA is denatured to make the nucleotides accessible for the antibody. Denaturing methods vary depending on each application.

图片



Methylation of chloroplast DNA visualized by immunochemistry. Samples are *Chlamidomonas me-1* cells. Left: DAPI-stained cells. Middle: Cells stained with ab73938 and FITC-conjugated 2nd antibody. Right: Merged image. Chloroplast DNA is exclusively methylated in gamete cells



ab73938 staining 5-Methyl Cytosine in murine PN5 zygotes by Immunocytochemistry/ Immunofluorescence.

Cells were fixed with methanol/acetic acid (3:1) and blocked with 30% serum for overnight at 4°C. Samples were incubated with primary antibody (1/100 in diluent) for 18 hours at 4°C before detection with a fluorescent secondary antibody.

Immunocytochemistry/ Immunofluorescence - Anti-5-methylcytosine (5-mC) antibody [5MC-CD] (ab73938)

Image from Li Y & O'Neill C., PLoS One. 2012;7(1):e30687. Epub 2012 Jan 26. Fig 5.; doi:10.1371/journal.pone.0030687; January 26, 2012, PLoS ONE 7(1): e30687.

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