

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

★★★★☆ **2 Abreviews** **29 References** 画像数 2

製品の概要

製品名	Anti-5-methylcytosine (5-mC) antibody [5MC-CD]
製品の詳細	Mouse monoclonal [5MC-CD] to 5-methylcytosine (5-mC)
由来種	Mouse
特異性	ab73938 reacts with DNA with 5-Methylcytosine (methylated DNA).
アプリケーション	適用あり: Southern Blot, ICC/IF
種交差性	交差種: Species independent
免疫原	Chemical/ Small Molecule corresponding to 5-methylcytosine (5-mC) conjugated to Bovine Serum Albumin (BSA).
ポジティブ・コントロール	Chlamidomonas me-1 cells.
特記事項	<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>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	pH: 6 Constituents: 50% Glycerol (glycerin, glycerine), PBS
特記事項(精製)	ab73938 is purified and filter-sterilised.
ポリ/モノ	モノクローナル
クローン名	5MC-CD
アイソタイプ	IgM

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 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
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

ターゲット情報

製品の状態 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.

画像

Vegitative cells

a b c

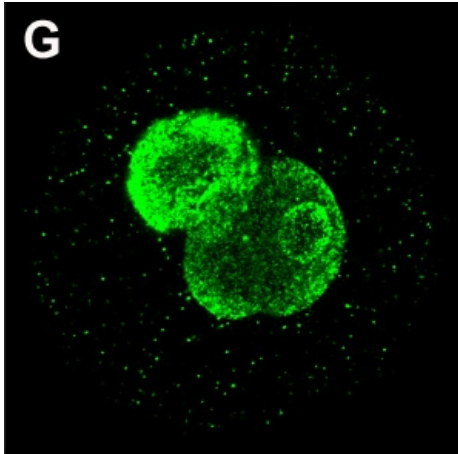
Gametes

d e f

DAPI FITC Merge

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

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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