

# Anti-5-hydroxymethylcytosine (5-hmC) antibody [AB3/63.3] - ChIP Grade ab106918

★★★★☆ **2 Abreviews**   **20 References**   画像数 4

### 製品の概要

製品名	Anti-5-hydroxymethylcytosine (5-hmC) antibody [AB3/63.3] - ChIP Grade
製品の詳細	Rat monoclonal [AB3/63.3] to 5-hydroxymethylcytosine (5-hmC) - ChIP Grade
由来種	Rat
アプリケーション	<b>適用あり:</b> ICC/IF, IP, ChIP, IHC-Fr, Dot blot, MeDIP
種交差性	<b>交差種:</b> Species independent
免疫原	5-hydroxymethylcytidine conjugated to KLH
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&amp;As</p>

### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.02% Sodium azide Constituent: 99.98% PBS
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	AB3/63.3
アイソタイプ	IgG2a

### アプリケーション

## The Abpromise guarantee

**Abpromise保証は、**次のテスト済みアプリケーションにおけるab106918の使用に適用されます

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。

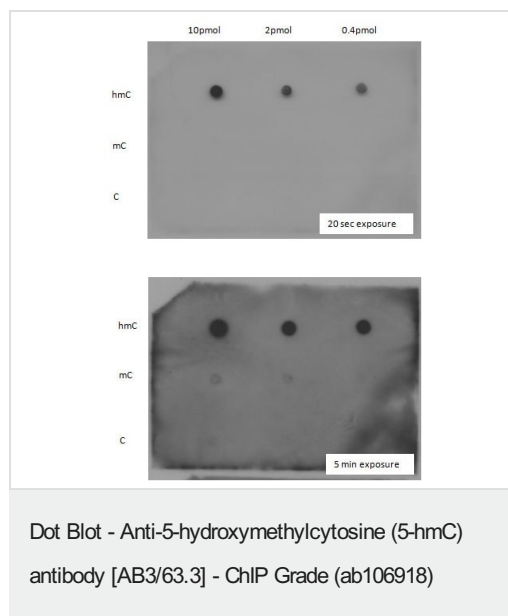
アプリケーション	Abreviews	特記事項
ICC/IF	★☆☆☆☆ (1)	1/500 - 1/1000.
IP		1/200.
ChIP	★★★★★ (1)	Use at an assay dependent concentration.
IHC-Fr		1/500 - 1/1000.
Dot blot		1/500.
MeDIP		Use at an assay dependent concentration.

## ターゲット情報

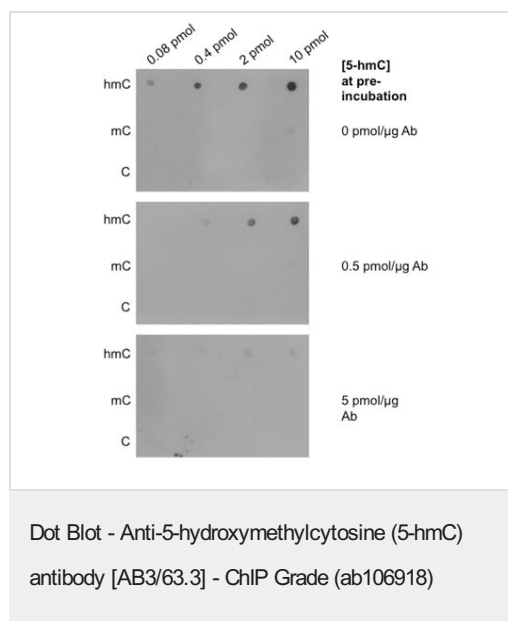
### 関連性

5-Hydroxymethylcytosine (5-hmC) is a modified base form of cytosine recently found in Human/mouse brain and in embryonic stem cells. This DNA pyrimidine nitrogen base can be generated by oxidation of 5-methylcytosine, a reaction mediated by the ten-eleven translocation (TET) family of the 5-mC hydroxylases. The function of this base is still not elucidated but it is believed to play an important role in switching genes on and off.

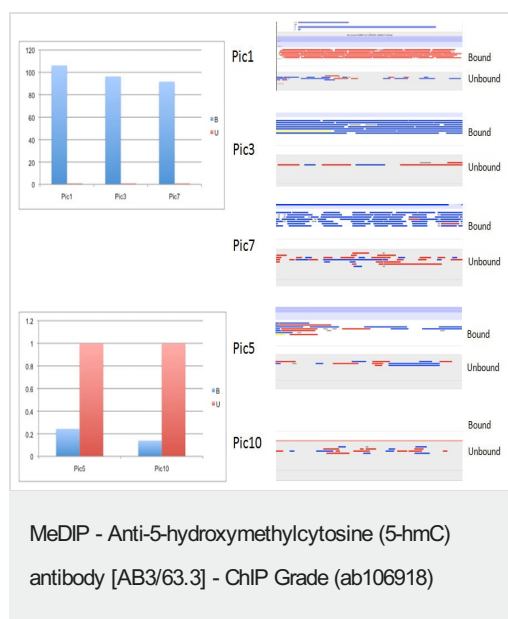
## 画像



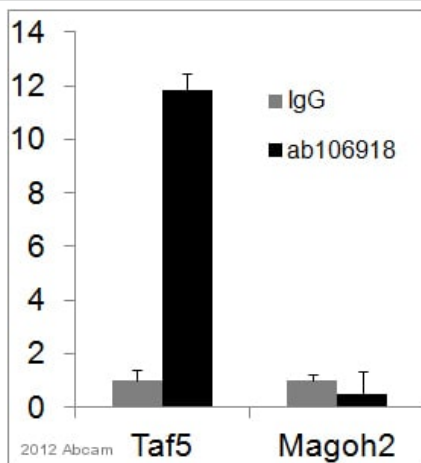
Dot blot assay shows that ab106918 specifically recognized 5-hydroxymethyl Cytidine (hmC). Indicated amounts of hmC, methyl Cytidine (mC) and Cytidine (C) were spotted onto a membrane that was then incubated with ab106918. hmC, mC and C were generated in the following way: M13mp18 DNA had been amplified using primers F and R; F: attccatgagcgttttcc R: gcaaggcaaagaattagcaa. A 200 uM dNTP end concentration was used with 1. A,G,C,T and 2. A,G,hmC,T; where C had been replaced with HmdCTP. DNA was in vitro methylated with SssI and SAM, and 2ul of pmol of each base was denatured at 95C for 5 min and spotted and dried onto the membrane. The dot blot membrane was blocked with 10%skimmed milk + 1%BSA blocking overnight and then incubated with ab106918 at 1:500 in blocking solution. A goat anti rat HRP secondary antibody was used for ECL detection. This image is from an anonymous collaborator.



Dot blot competition assay in which ab106918 was preincubated with 5-hydroxymethyl Cytidine (5hmC) at amounts indicated in figure. Specified amounts of 5hmC, methyl Cytidine (mC) and Cytidine (C) were spotted onto membranes and were then incubated with ab106918 that had been preincubated with 5hmC as shown in figure. ab106918 specifically recognized 5hmC and this was blocked by preincubation with 5hmC at 5 pmol/ug ab106918 (Ab). This image is from an anonymous collaborator.



The specificity of ab106918 was confirmed by (h)MeDIP using qPCR validation of regions in ES cells that are highly enriched in 5-hydroxymethyl Cytidine (5hmC) (Pic1, Pic3 and Pic7) or not (Pic5 and Pic10). This image is from an anonymous collaborator.



ChIP analysis of mouse ES nuclear cell lysate using ab106918 to bind 5-hydroxymethyl Cytidine. Chromatin was obtained by incubating with primary antibody (0.5 µg/µg chromatin in a glycerol IP buffer) for 16 hours at 4°C. Protein binding was detected using real-time PCR.

ChIP - Anti-5-hydroxymethylcytosine (5-hmC)  
antibody [AB3/63.3] - ChIP Grade (ab106918)

This image is courtesy of an anonymous Abreview

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