abcam

Product datasheet

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

2 Abreviews 20 References 4 图像

概述

产品名称	Anti-5-hydroxymethylcytosine (5-hmC)抗体[AB3/63.3] - ChIP Grade
描述	大鼠单克隆抗体[AB3/63.3] to 5-hydroxymethylcytosine (5-hmC) - ChIP Grade
宿主	Rat
经测试应用	**适用于:** ICC/IF, IP, ChIP, IHC-Fr, Dot blot, MeDIP
种属反应性	**与反应:** Species independent
免疫原	5-hydroxymethylcytidine conjugated to KLH
常规说明	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. 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

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.02% Sodium azide Constituent: 99.98% PBS
纯度	Protein G purified
克隆	单克隆
克隆编号	AB3/63.3
同种型	IgG2a

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab106918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。

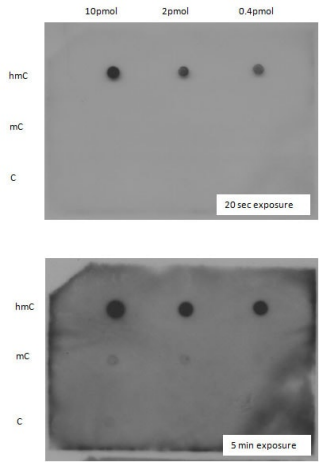
应用	Ab评论	说明
ICC/IF	★☆☆☆☆ (1)	1/500 - 1/1000.
IP		1/200.
ChIP	★★★★★ (1)	Use at an assay dependent concentration.
IHC-Fr		1/500 - 1/1000.
Dot blot		1/500.
MeDIP		Use at an assay dependent concentration.

靶标

相关性

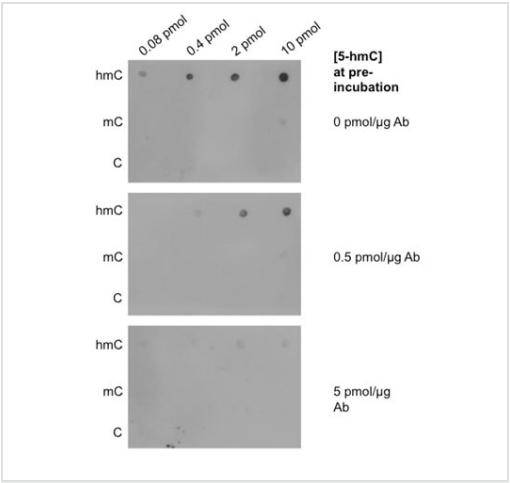
5-Hydroxymethylcytosine (5-hmC) is a modified base form of cytosine recently found in Human/mouse brain and inembryonic stem cells. This DNA pyrimidine nitrogen base can be generated by oxidation of 5-methylcytosine, a reaction mediated by the ten-eleven translocation (TET) family of the 5-mC hydroxylases.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

图片



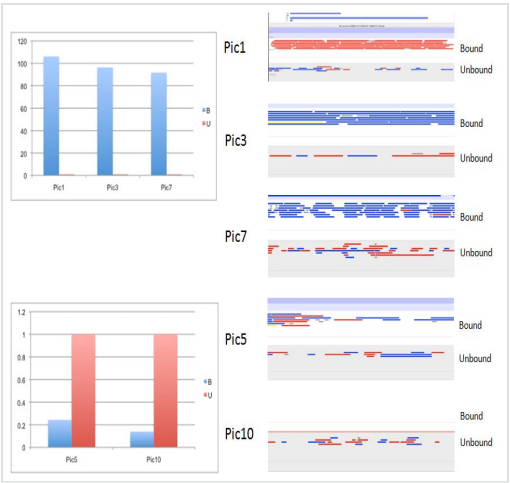
Dot Blot - Anti-5-hydroxymethylcytosine (5-hmC) antibody [AB3/63.3] - ChIP Grade (ab106918)

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: atttccatgagcgtttttcc 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.



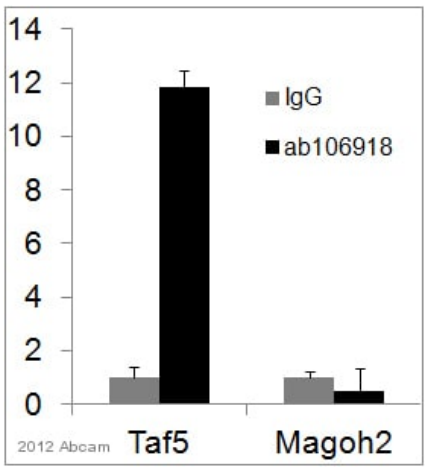
Dot Blot - Anti-5-hydroxymethylcytosine (5-hmC) antibody [AB3/63.3] - ChIP Grade (ab106918)

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.



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

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

This image is courtesy of an anonymous Abreview

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.

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