abcam

Product datasheet

Histone H3 (K9 methylation) Panel (H3, mono methyl K9, di methyl K9, tri methyl K9) ab113754

1 References　5 图像

概述

产品名称 Histone H3 (K9 methylation)组合(H3，mono methyl K9，di methyl K9，tri methyl K9)

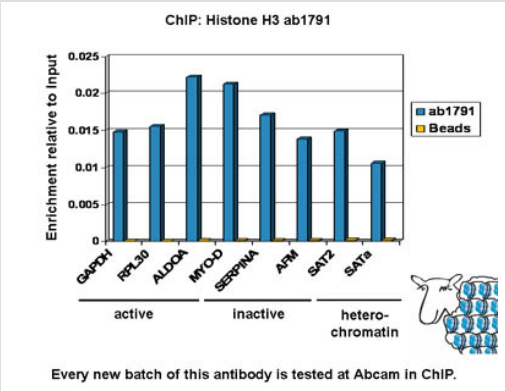
产品概述 ab113754 is a Histone H3 (K9 methylation) Panel designed for the validation and characterization of the methylation state of Histone H3 on K9. Methylation of the canonical core histones can contribute to the formation of transcriptionally active and inactive chromatin in response to various signalling pathways and is a central modification for regulating epigenetic transitions in chromatin. Histone H3 methylation on K9 is a repressive modification, and H3 K9 tri-methylation has been shown to establish binding sites for heterochromatin protein 1.

性能

存放说明 Store at -80°C. Please refer to protocols.

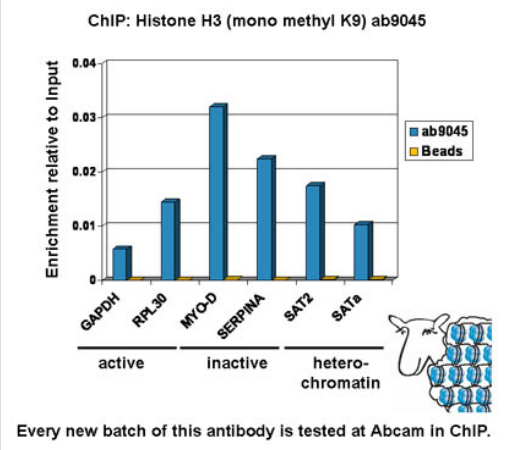
组件	1 units
ab1220 - Anti-Histone H3 (di methyl K9) antibody [mAbcam 1220] - ChIP Grade	1 x 25µg
ab9045 - Anti-Histone H3 (mono methyl K9) antibody - ChIP Grade	1 x 25µg
ab8898 - Anti-Histone H3 (tri methyl K9) antibody - ChIP Grade	1 x 25µg
ab176842 - Rabbit monoclonal to Histone H3 [EPR16987]	1 x 10µl

图片



ChIP - Histone H3 (K9 methylation) Panel (H3, mono methyl K9, di methyl K9, tri methyl K9) (ab113754)

Chromatin was prepared from U2OS cells according to the Abcam X-ChIP protocol. Cells were fixed with formaldehyde for 10 min. The ChIP was performed with 25 µg of chromatin, 2 µg of ab1791 (blue), and 20 µl of protein A/G sepharose beads. No antibody was added to the beads control (yellow). The immunoprecipitated DNA was quantified by real time PCR (Taqman approach). Primers and probes are located in the first kb of the transcribed region.



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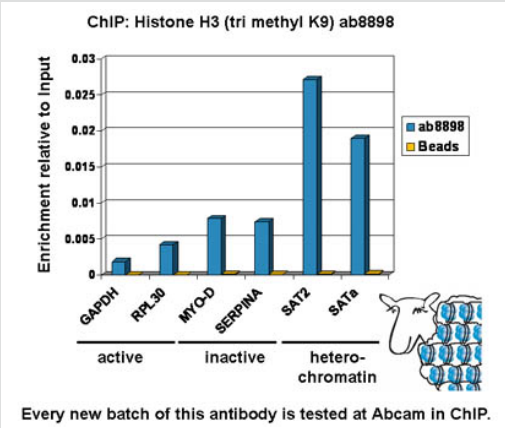

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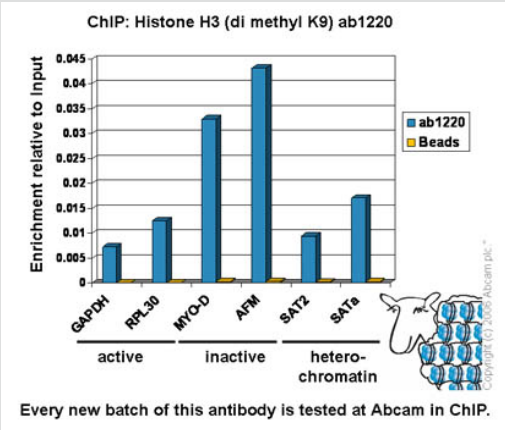

ChIP - Histone H3 (K9 methylation) Panel (H3, mono methyl K9, di methyl K9, tri methyl K9) (ab113754)

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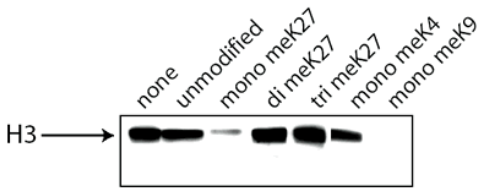

Western blot - Histone H3 (K9 methylation) Panel (H3, mono methyl K9, di methyl K9, tri methyl K9) (ab113754)

All lanes : Anti-Histone H3 (mono methyl K9) antibody - ChIP Grade (ab9045) at 1 µg/ml

Lane 1 : As above
Lane 2 : Human Histone H3 (unmodified) peptide (ab7228)
Lane 3 : Human Histone H3 (mono methyl K27) peptide (ab1780)
Lane 4 : Human Histone H3 (di methyl K27) peptide (ab1781)
Lane 5 : Human Histone H3 (tri methyl K27) peptide (ab1782)
Lane 6 : Human Histone H3 (mono methyl K4) peptide (ab1340)
Lane 7 : Human Histone H3 (mono methyl K9) peptide (ab1771)
ab9045 shows significantly greater reactivity with mono methyl K9. This can be seen in lane 7, as the addition of ab1771 (mono methyl K9) completely blocks the activity of ab9045. Weaker cross-reactivity is seen against mono methyl K27. This is shown in lane 3, as the addition of ab1780 only partially blocks the activity of ab9045.

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