

Datasheet for ABIN2668866

anti-Histone H4 antibody (N-Term)



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Overview

Quantity:	100 µg
Target:	Histone H4
Binding Specificity:	N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunofluorescence (IF), Chromatin Immunoprecipitation (ChIP), Dot Blot (DB), Immunocytochemistry (ICC), ChIP DNA-Sequencing (ChIP-seq)

Product Details

Immunogen:	This Histone H4 pan-acetylantibody was raised against a peptide containing the amino terminal region of <i>Tetrahymena</i> histone H2A acetylated at multiple lysines. (The immunogen has a high degree of homology to mammalian histone H4, so the antibody recognizes acetylated histone H4 in HeLa extracts).
Isotype:	IgG
Purification:	Protein A Chromatography

Target Details

Target:	Histone H4
Abstract:	Histone H4 Products
Molecular Weight:	8 kDa

Target Details

Gene ID: 121504

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Concentration: 1 µg/µL

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

Storage: -20 °C

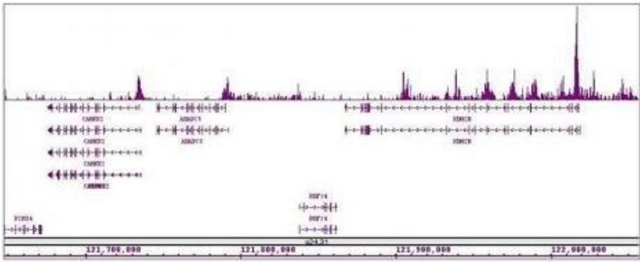
Storage Comment: Antibodies in solution can be stored at -20 °C for 2 years.

Expiry Date: 6 months

Publications

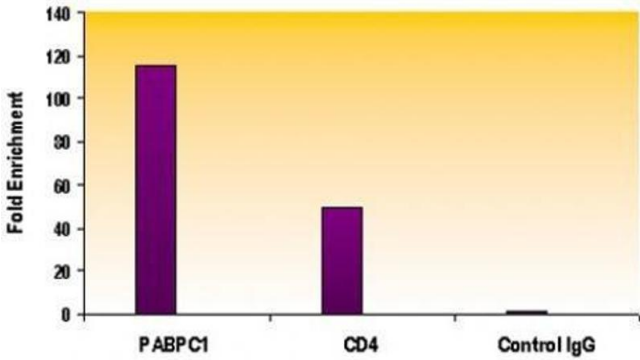
Product cited in: Ito, Egusa, Maeda, Numata, Nakano, Nishiyama, Tsuboi: "IL-33 promotes MHC class II expression in murine mast cells." in: **Immunity, inflammation and disease**, Vol. 3, Issue 3, pp. 196-208, (2015) ([PubMed](#)).

Soukup, Chiang, Bok, Reyes-Dominguez, Oakley, Wang, Strauss, Keller: "Overexpression of the Aspergillus nidulans histone 4 acetyltransferase EsaA increases activation of secondary metabolite production." in: **Molecular microbiology**, Vol. 86, Issue 2, pp. 314-30, (2012) ([PubMed](#)).



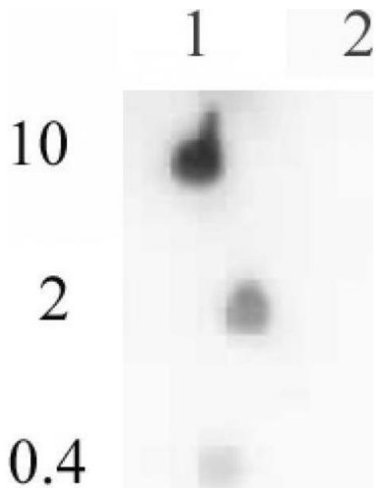
ChIP DNA-Sequencing

Image 1. Histone H4ac (pan-acetyl) antibody (pAb) tested by ChIP-Seq. ChIP was performed using the ChIP-IT® High Sensitivity Kit (Cat. No. 53040) with 15 ug of chromatin from a human medulloblastoma cell line and 4 µg of antibody. ChIP DNA was sequenced on the Illumina HiSeq and 12 million sequence tags were mapped to identify Histone H4ac (pan-acetyl) binding sites. The image shows binding across a region of chromosome 12.



Chromatin Immunoprecipitation

Image 2. Histone H4ac (pan-acetyl) antibody (pAb) tested by ChIP. Chromatin IP performed using the ChIP-IT® Express Kit (Catalog No. 53008) and HeLa Chromatin (1.5 x 10⁶ cell equivalents per ChIP) using 3 µg of Histone H4 pan-acetyl antibody or the equivalent amount of rabbit IgG as a negative control. Real-time, quantitative PCR (RT-qPCR) was performed on DNA purified from each of the ChIP reactions using a primer pair specific for the indicated gene. Data are presented as Fold Enrichment of the ChIP antibody signal versus the negative control IgG using the ddCT method.



Dot Blot

Image 3. Histone H4ac (pan-acetyl) antibody (pAb) tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of Histone H4 pan-acetyl antibody for acetyl histone H4. An acetylated peptide corresponding to the immunogen (Lane 1) as well an unacetylated histone H4 peptide (Lane 2) were spotted onto PVDF and probed with Histone H4 pan-acetyl antibody at 1 µg /ml. The amount of peptide (picomoles) spotted is indicated next to each row.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN2668866.