Datasheet for ABIN2668337

anti-Histone H2B antibody (acLys46)

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Overview

Quantity:	200 µL
Target:	Histone H2B
Binding Specificity:	acLys46
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Histone H2B antibody is un-conjugated
Application:	Western Blotting (WB), Chromatin Immunoprecipitation (ChIP)

Product Details

Immunogen:	This Histone H2B acetylLys46 antibody was raised against a peptide containing acetyllysine 46 of human histone H2B.
Purification:	None

Target Details

Target:	Histone H2B
Abstract:	Histone H2B Products
Molecular Weight:	15 kDa
Gene ID:	8348

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

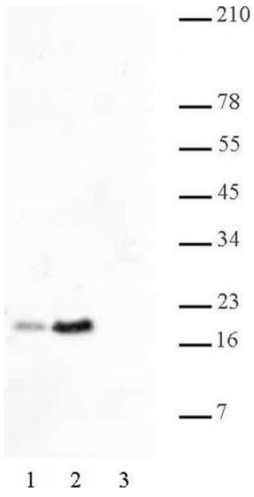
Handling

Format:	Liquid
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

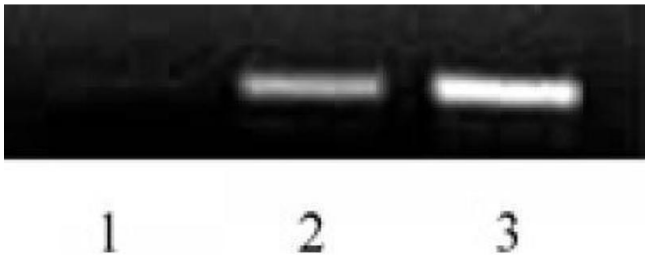
Product cited in:	Kyriss, Jin, Gallegos, Sanford, Wyrick: "Novel functional residues in the core domain of histone H2B regulate yeast gene expression and silencing and affect the response to DNA damage." in: **Molecular and cellular biology**, Vol. 30, Issue 14, pp. 3503-18, (2010) (PubMed).

Images



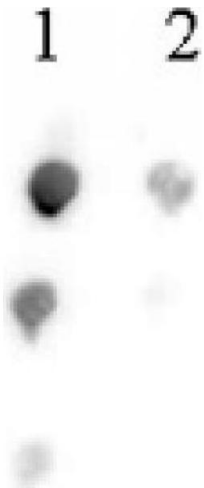
Western Blotting

Image 1. Histone H2B acetyl Lys46 pAb tested by Western blot. Acid extract of HeLa cells (20 µg per lane) was probed with Histone H2B acetyl Lys46 polyclonal antibody (1:4,000 dilution). Lane 1: Untreated cells. Lane 2: Cells treated with sodium butyrate. Lane 3: Recombinant Histone H2B (200 ng).



Chromatin Immunoprecipitation

Image 2. Histone H2B acetyl Lys46 pAb tested by ChIP. Chromatin IP performed using the ChIP-IT® Express Kit (Catalog No. 53008) and 50 µl of Ready-to-ChIP HeLa Chromatin (Catalog No. 53015) per ChIP. Subsequent to the ChIP reaction, DNA was purified from the immunoprecipitated chromatin and a region of the human GAPDH promoter was amplified by PCR. Lane 1: ChIP using negative control rabbit IgG. Lane 2: ChIP using 10 µl of Histone H2B acetyl Lys46 pAb. Lane 3: PCR input control.



Dot Blot

Image 3. Histone H2B acetyl Lys46 pAb tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of Histone H2B acetyl Lys46 pAb for acetyl Lys46 histone H2B. Decreasing amounts of acetylated peptides corresponding to the immunogen and related sequences were spotted onto PVDF and probed with the antibody at 1:4,000. Lane 1: acetyl Lys46 histone H2B peptide. Lane 2: unmodified Lys46 histone H2B peptide. No detection of peptides (acetylated) corresponding to lysine 9, 14, 18, 23, 27, and 56 of Histone H3 was observed with Histone H2B acetyl Lys46 pAb. In addition, no detection of peptides (acetylated) corresponding to lysine 5, 15, 16, and 120 of Histone H2B was observed with Histone H2B acetyl Lys46 pAb.