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Datasheet for ABIN6971747

anti-Histone H1.5 antibody (pSer17)

2 Images

Overview

Quantity:	100 µL
Target:	Histone H1.5 (HIST1H1B)
Binding Specificity:	pSer17
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Dot Blot (DB)

Product Details

Immunogen:	This Histone H1.5 phospho Ser17 antibody was raised against a peptide containing phospho Ser17 of human histone H1.5.
Isotype:	IgG
Characteristics:	The nucleosome is the smallest subunit of chromatin and consists of 147 base pairs of DNA wrapped around an octamer of core histone proteins (two each of Histone H2A, Histone H2B, Histone H3 and Histone H4). Histone H1 is a linker histone, present at the interface between the nucleosome core and DNA entry/exit points, it is responsible for establishing higher-order chromatin structure. Chromatin is subject to a variety of chemical modifications, including post-translational modifications of the histone proteins and the methylation of cytosine residues in the DNA. Reported histone modifications include acetylation, methylation, phosphorylation, ubiquitylation, glycosylation, ADP-ribosylation, carbonylation and SUMOylation, they play a major role in regulating gene expression. Histone H1.5 is an H1 isotype expressed in somatic cells and is heavily phosphorylated during mitosis. Phosphorylation of H1.5 at serine

Product Details

17 appears in prometaphase and disappears in telophase. The hyperphosphorylated form of H1.5 is mainly chromatin-bound in metaphase when chromatin is maximally condensed. Phosphorylation of H1.5 at serine 17 can be catalyzed by GSK-3. Histone H1.5S17ph antibody (pAb) was raised in a Rabbit host. It has been validated for use in Dot blot and Western blot, it has been shown to react with Human samples, but it is predicted that it will react with a wide range of sample types.

Purification: Affinity Purified

Target Details

Target: Histone H1.5 (HIST1H1B)

Alternative Name: Histone H1.5 ([HIST1H1B Products](#))

Molecular Weight: 36 kDa

NCBI Accession: [NP_005313](#)

Application Details

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

Restrictions: For Research Use only

Handling

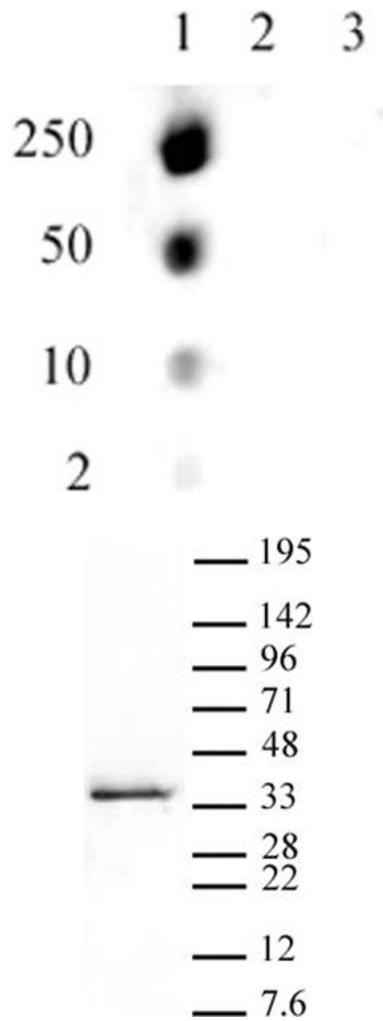
Buffer: Purified IgG in 70 mM Tris (pH 8), 105 mM NaCl, 31 mM glycine, 0.07 mM EDTA, 30 % glycerol and 0.035 % sodium azide.

Preservative: Sodium azide

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

Storage: -20 °C

Storage Comment: Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20°C for up to 2 years. Keep all reagents on ice when not in storage.



Dot Blot

Image 1. Specificity Data: Dot blot analysis was used to confirm the specificity of the Histone H1.5 phospho Ser17 antibody. Peptides corresponding to the immunogen and related peptides were spotted onto PVDF and probed with the antibody at a dilution of 1:1,000. The amount of peptide (picomoles) spotted is indicated next to each row. Lane 1: phospho Ser17 peptide. Lane 2: unmodified Ser17 peptide. Lane 3: phospho Thr17 histone H1.4 peptide.

Western Blotting

Image 2. Western Blot: HeLa nuclear extract (20 µg per lane) probed with the Histone H1.5 phospho Ser17 antibody (pAb) at a dilution of 1:1,000.