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yeast H2BK123ub - Classic

Purified mouse monoclonal Antibody

Catalog # ADN10269

Specification

yeast H2BK123ub - Classic - Product Information

Application	**CHIP, WB**
Primary Accession	P02293
Reactivity	**Human, Yeast**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**14252**

yeast H2BK123ub - Classic - Additional Information

Gene ID 851810

Other Names
Histone H2B.1, Suppressor of Ty protein 12, HTB1, H2B1, SPT12

Target/Specificity
yeast H2BK123ub

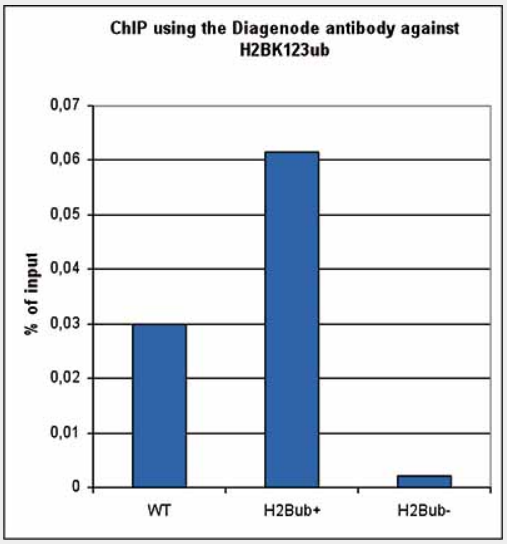
Precautions
yeast H2BK123ub - Classic is for research use only and not for use in diagnostic or therapeutic procedures.

yeast H2BK123ub - Classic - Protein Information

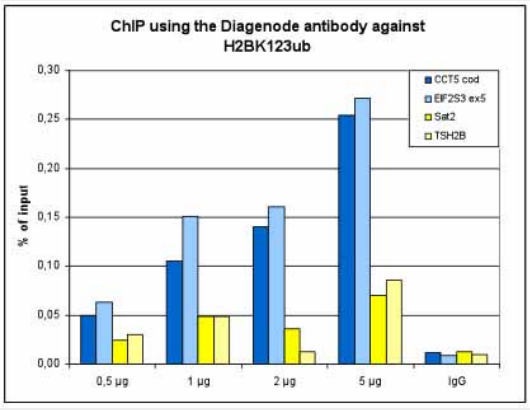
Name HTB1

Function
Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.

Cellular Location
Nucleus. Chromosome.



ChIP assays were performed using the Diagenode antibody against H2BK123ub (Cat. No. ADN10269) on sheared chromatin from WT yeast cells, yeast cells with higher steady state levels of H2BK123ub and yeast cells with no ubiquitinylated H2B. Quantitative PCR was performed with primers for the coding region of an active gene. Figure 1 shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



ChIP assays were performed using human HeLa cells, the Diagenode antibody against H2BK123ub (cat. No. ADN10269) and optimized PCR primer sets for qPCR. ChIP was

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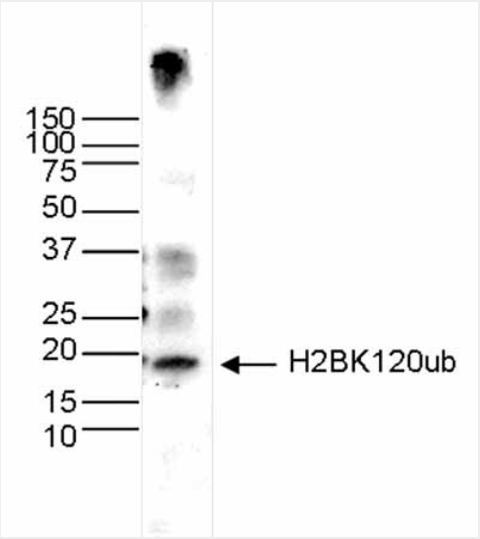
yeast H2BK123ub - Classic - Protocols

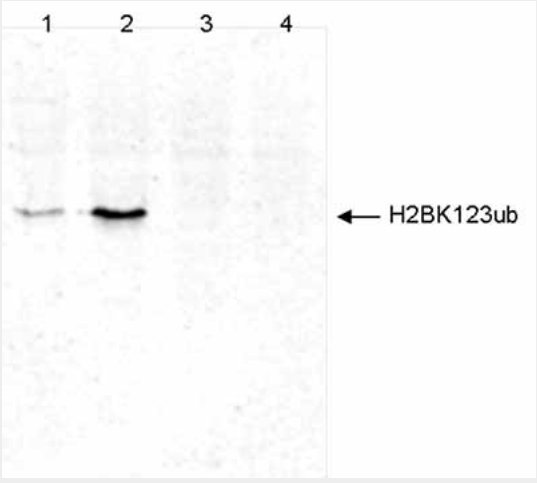
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

performed with the "iDeal ChIP-seq" kit (cat. No. C01010055) on sheared chromatin from 1,000,000 cells. A titration of the antibody consisting of 0.5, 1, 2 and 5 µg per ChIP experiment was analysed. IgG (1 µg/IP) was used as negative IP control. QPCR was performed with primers for the coding regions of the active CCT5 and EIF2S3 genes, used as positive controls, and for the inactive TSH2B gene and the Sat2 satellite repeat region used as negative controls. Figure 2 shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



Western blot was performed on histone extracts from HeLa cells (15 µg) using the Diagenode antibody against H2BK123ub (Cat. No. ADN10269). The antibody was diluted 1:500 in TBS-Tween containing 5% skimmed milk. The position of the protein of interest is indicated on the right; the marker (in kDa) is shown on the left.



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Western blot was performed on whole cell extracts from WT yeast cells (lane 1), yeast cells with higher steady state levels of H2BK123ub (lane 2), none ubiquitinylated H2B (lane 3) and ubiquitinylated H2A (lane 4). The position of the protein of interest is indicated on the right.