

## Product datasheet

# Anti-Histone H2B antibody ab124054

### 画像数 2

#### 製品の概要

|              |   |
|--------------|---|
| 製品名          | Anti-Histone H2B antibody   |
| 製品の詳細        | Rabbit polyclonal to Histone H2B  |
| 由来種          | Rabbit  |
| アプリケーション     | <b>適用あり:</b> WB   |
| 種交差性         | <b>交差種:</b> Human   |
| 免疫原          | Synthetic peptide corresponding to Human Histone H2B aa 1-30 (N terminal) conjugated to Keyhole Limpet Haemocyanin (KLH).<br>Database link: <a href="#">NP_066406.1</a> |
| ポジティブ・コントロール | Jurkat cell line lysates  |

#### 製品の特性

|           |   |
|-----------|---|
| 製品の状態     | Liquid  |
| 保存方法      | Shipped at 4°C. Store at 4°C (up to 6 months). Store at -20°C long term.                    |
| バッファー     | Preservative: 0.09% Sodium azide<br>Constituent: 99% PBS                                    |
| 精製度       | Immunogen affinity purified   |
| 特記事項 (精製) | ab124054 is purified through a protein A column, followed by peptide affinity purification. |
| ポリ/モノ     | ポリクローナル   |
| アイソタイプ    | IgG   |

#### アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab124054** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| アプリケーション | Abreviews | 特記事項   |
|----------|-----------|--|
| WB       |           | 1/100 - 1/500. Predicted molecular weight: 14 kDa. |

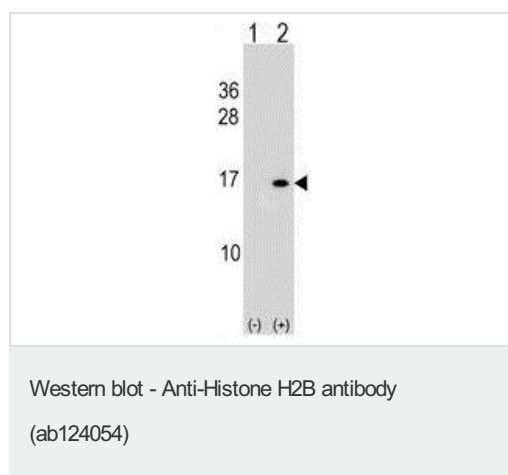
関連性

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. Subunit structure The nucleosome is a histone octamer containing two molecules each of H2A, H2B, H3 and H4 assembled in one H3-H4 heterotetramer and two H2A-H2B heterodimers. The octamer wraps approximately 147 bp of DNA. Post-translational modification Monoubiquitination at Lys-35 (H2BK34Ub) by the MSL1/MSL2 dimer is required for histone H3 'Lys-4' (H3K4me) and 'Lys-79' (H3K79me) methylation and transcription activation at specific gene loci, such as HOXA9 and MEIS1 loci. Similarly, monoubiquitination at Lys-121 (H2BK120Ub) by the RNF20/40 complex gives a specific tag for epigenetic transcriptional activation and is also prerequisite for histone H3 'Lys-4' and 'Lys-79' methylation. It also functions cooperatively with the FACT dimer to stimulate elongation by RNA polymerase II. H2BK120Ub also acts as a regulator of mRNA splicing: deubiquitination by USP49 is required for efficient cotranscriptional splicing of a large set of exons. Phosphorylation at Ser-37 (H2BS36ph) by AMPK in response to stress promotes transcription. Phosphorylated on Ser-15 (H2BS14ph) by STK4/MST1 during apoptosis; which facilitates apoptotic chromatin condensation. Also phosphorylated on Ser-15 in response to DNA double strand breaks (DSBs), and in correlation with somatic hypermutation and immunoglobulin class-switch recombination. GlcNAcylation at Ser-113 promotes monoubiquitination of Lys-121. It fluctuates in response to extracellular glucose, and associates with transcribed genes. Crotonylation (Kcr) is specifically present in male germ cells and marks testis-specific genes in post-meiotic cells, including X-linked genes that escape sex chromosome inactivation in haploid cells. Crotonylation marks active promoters and enhancers and confers resistance to transcriptional repressors. It is also associated with post-meiotically activated genes on autosomes.

細胞内局在

Nuclear

画像



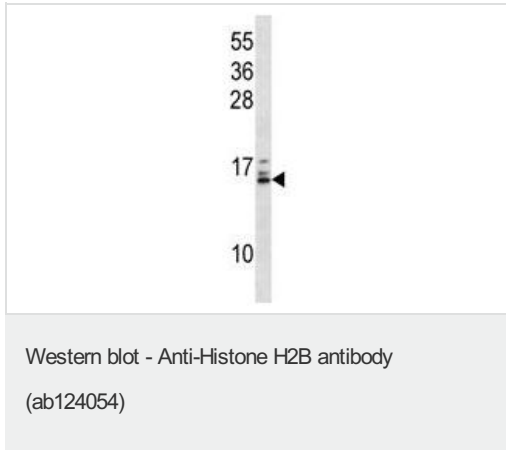
**All lanes :** Anti-Histone H2B antibody  
(ab124054)

**Lane 1 :** 293 cell lysates

**Lane 2 :** 293 cell lysates - transfected with the  
Histone H2B gene

Lysates/proteins at 2 µg per lane.

**Predicted band size:** 14 kDa



Anti-Histone H2B antibody (ab124054) at  
1/100 dilution + Jurkat cell line lysates at 35 µg

**Predicted band size:** 14 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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