

**POLYCLONAL ANTIBODY**

*For research use only. Not for clinical diagnosis.*

**Catalog No. BAM-63-126-EX**

## Anti-histone H2B (*S. pombe*)

### BACKGROUND

In the eukaryotic cells, DNA is packaged repetitively into nucleosomes by means of interactions among two molecules of four classes of histone, H2A, H2B, H3 and H4. Each of the histone proteins has an evolutionarily conserved amino-terminal 'tail' that protrudes from the nucleosome. This tail is the target of numerous diverse signaling pathways, resulting in the addition of many post-translational modifications. These modifications include phosphorylation, acetylation, methylation, ADP-ribosylation and mono-ubiquitination. Many important new modifications within the structured core and the carboxy-terminal tail regions of histones are also being identified. It is becoming increasingly clear that these modifications represent crucial regulatory events that govern the accessibility and function of the genome.

<b>Product type</b>	Primary antibodies
<b>Host</b>	Rabbit
<b>Source</b>	Serum
<b>Form</b>	Liquid
<b>Volume</b>	Undiluted rabbit antiserum added with 0.05 % sodium azide
<b>Concentration</b>	250 µl
<b>Specificity</b>	
<b>Antigen</b>	Synthetic peptide corresponding to the amino-terminal <i>S. pombe</i> histone H2B, SAAEKKPASKAPAGKA
<b>Isotype</b>	

**Application notes** WB, IP (CHIP assay)

### Recommended use

### Recommended dilutions

Western blotting: 1,000 fold dilution

Optimal dilutions/concentrations should be determined by the end user.

Data Link: UniProtKB/Swiss-Prot [P04913](#) (H2B1\_SCHPO)

### Staining Pattern

**Cross reactivity** *S. pombe* histone H2B

**Storage** 4°C (for long period; -80°C)

**References** 1) Maruyama T et al " Histone H2B mutations in inner region affect ubiquitination, centromere function, silencing and chromosome segregation" EMBO J 25: 2420-2431 (2006) PMID: 16688222

(This product has been used in the following reference.)

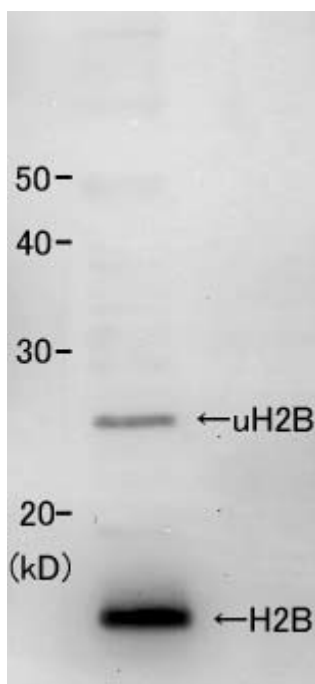


Fig.1 Identification of histone H2B in the crude extract of fission yeast *S. pombe* with this anti body.

The 17 kDa and 24-25 kDa bands correspond to the unmodified and the mono-ubiquitinated histone H2B, respectively, as described in Ref.1.

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