# **Product Datasheet**

# Histone H2B [ubiquitylated Lys123] Antibody (1B3F12/A9) - BSA Free NBP2-54770

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**Publications: 1** 

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# NBP2-54770

**Application Notes** 

Histone H2B [ubiquitylated Lys123] Antibody (1B3F12/A9) - BSA Free

Thistorie Fizb [ubiquitylated Lys125] Antibody (Tb5i 12/A9) - b5A Fiee	
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1B3F12/A9
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS
Target Molecular Weight	23 kDa
Product Description	
Description	Clone formerly called "H2BK123"
Host	Mouse
Gene ID	440689
Gene Symbol	H2BC18
Species	Human, S. pombe, Yeast
Reactivity Notes	Saccharomyces cerevisiae
Immunogen	Ub-polypeptide antigen based on amino acids 115 - 130 of yeast Histone H2B
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:100 - 1:2000, ELISA 1:100 - 1:2000, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP) 1:10-1:500

Positive control(s): Yeast histone preparation.



Figure 1. Structure of site-selective Ub modified polypeptides with a proteolytically stable isopeptide bond as antigens for antibody generation; the corresponding Ub modified polypeptide with a native isopeptide bond is used for follow-up ELISA

# **Images** Western Blot: Histone H2B Antibody (1B3F12/A9) [NBP2-54770] Ub-H2A, no H2Bub Yeart whole-cell extract validation test panel: H28ub WT cells, normal levels of H2BK123ub1 H28ub1+ Higher scenaria levels of H2BK123ub1 No H2Bk125ub1 No H2BK123ub1 Wo H2BK123ub1 Just ub tethered to H2A Flag H2Bube H2BK123ub1 Just ub tethered to H2A H2BK123ub1 No H2BK123ub1 Just ub tethered to H2A H2BK123ub1 No H2BK123ub1 Just ub tethered to H2A No H2Bub H2Bub+ ∠Flag-H2Bub1 ←H2Bub1 **←H2B** → The manacional is specific for yeast H28K123ub1. → It does not non-specifically react with H28 or ubiquitin on other proteins (here H2A). → It detects endogenous levels of H28K123ub1 in whole-cell extracts. → it detects increased levels of H28K123ub1 on native or togged histone H28. Chromatin Immunoprecipitation: Histone H2B Antibody (1B3F12/A9) H2BK123ub1 ChIP-qPCR Outline ChiP 0.07 [NBP2-54770] in vivo cross-link histones to DNA 8 0.06 0.05 0.04 0.03 0.02 % IP/input using PTM antibody (here antibody of clone 183) 0.02 0.01 0.00 Analyze DNA by qPCR to deterr abundance of the PTM on a DNA locus H2Bub+ H2Bub ELISA: Histone H2B Antibody (1B3F12/A9) [NBP2-54770]

#### **Publications**

Vlaming et al. Direct screening for chromatin status on DNA barcodes in yeast delineates the regulome of H3K79 methylation by Dot1. elife. 2016-12-07 [PMID: 27922451] (Yeast)

experiments.



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### **Products Related to NBP2-54770**

HAF007 Goat anti-Mouse IgG Secondary Antibody [HRP]

NB720-B Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]

NBP1-97005-0.5mg Mouse IgG1 Isotype Control (MG1)

NBP3-07913-200ug Recombinant Human Histone H2B Protein

#### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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