



# Recombinant Histone H2B (Ubiquityl Lys120) Monoclonal Antibody

catalog number: AN302107L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Description**

Reactivity Human;Rat;Mouse

Immunogen Ubiquitinated human histone H2B (Lys120) peptide

 Host
 Rabbit

 Isotype
 IgG, κ

 Clone
 A831

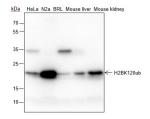
Purification Protein Apurified

Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

## Applications Recommended Dilution

**WB** 1:500-1:2000 **IHC** 1:200-1:1000

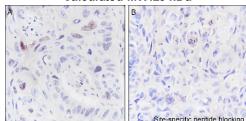
#### Data



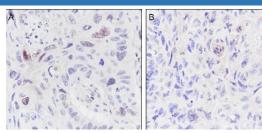
Western Blot with Histone H2B Monoclonal Antibody at dilution of 1:2000. Lane 1: HeLa, Lane 2: N2a, Lane 3: BRL,

Lane 4: Mouse liver, Lane 5: Mouse kidney

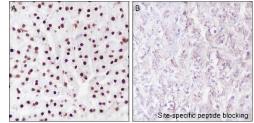
Observed-MW:23 kDa Calculated-MW:23 kDa



Immunohistochemistry of paraffin-embedded Rat liver using Histone H2B Monoclonal Antibody at dilution of 1:1000.



Immunohistochemistry of paraffin-embedded Human lung squamous carcinoma using Histone H2B Monoclonal Antibody at dilution of 1:1000.



Immunohistochemistry of paraffin-embedded Mouse liver using Histone H2B Monoclonal Antibody at dilution of 1:1000.

### **Preparation & Storage**

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping lce bag

#### **Background**

### For Research Use Only

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Ubiquitin (Ub) is a highly conserved 76-amino acid protein that plays a critical role in regulating a wide range of cellular processes. Through a three-step process involving Ub-activating (E1), Ub-conjugating (E2), and Ub-ligating (E3) enzymes, ubiquitin covalently attaches to target proteins and marks them for proteasomal degradation, alters protein-protein interactions, modulates membrane protein trafficking, and controls the activity of many signal transduction pathways. Mono-ubiquitination of Histone H2B at Lys120 (H2BK120ub) serves signaling purposes and is reversible by ubiquitin-specific proteases (USPs). The enzymes responsible for H2BK120ub are Rad6 E2 proteins (HR6A and HR6B in human) and Bre1 E3 ligase (RNF20 and RNF40 in human). This modification triggers a "transhistone" modification cascade, resulting in trimethylation of Lys4 and Lys79 in histone H3, which promotes gene activity.

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