

## Histone H3 Monoclonal Antibody

**catalog number:** E-AB-22003

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

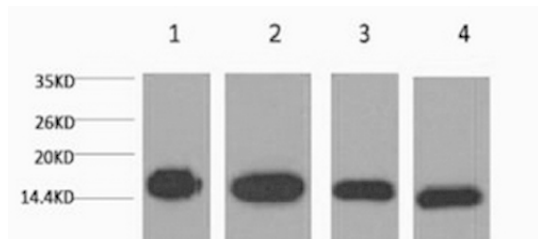
### Description

<b>Reactivity</b>	Human;Mouse;Rat;Yeast
<b>Immunogen</b>	Recombinant Protein
<b>Host</b>	Mouse
<b>Isotype</b>	IgG
<b>Clone</b>	5B1
<b>Purification</b>	Protein A purification
<b>Buffer</b>	Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer, 0.5% protein protectant and 50% glycerol.

### Applications

Applications	Recommended Dilution
<b>WB</b>	1:500-1:2000
<b>IHC</b>	1:50-300
<b>IF</b>	1:100-500
<b>IP</b>	1:100-1:300

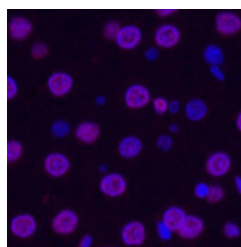
### Data



Western Blot analysis of 1) HeLa, 2) Raw264.7, 3) Mouse brain, 4) Rat brain using Histone H3 Monoclonal Antibody at dilution of 1:5000.

**Observed-MV:15 kDa**

**Calculated-MV:15 kDa**



Immunofluorescence analysis of Rat liver tissue using Histone H3 Monoclonal Antibody at dilution of 1:200.

### Preparation & Storage

<b>Storage</b>	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
<b>Shipping</b>	The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

### Background

### For Research Use Only

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.