

# Histone H3 Mouse Monoclonal Antibody(1G1)

## Catalog No: RTA12

### Basic Information

Host species	Mouse
Applications	WB, IF, IP
Species Cross-Reactivity	H, R, M, Yeast
Specificity	The Histone H3 antibody can detects endogenous Histone H3 protein.
Recommended dilutions	WB: 1:2,000-5,000    IF:1:100-500    IP:1:200 Optimal dilutions should be determined by the end user.

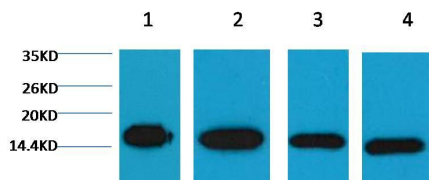
### Applications

Formulation	PBS, pH 7.4, containing 0.02% sodium azide as Preservative and 50% Glycerol.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Concentration	1 mg/ml
Clonality	Monoclonal

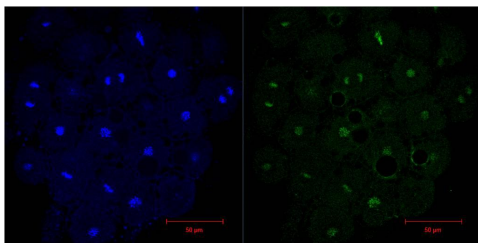
### Background

Alternative Names	H3 histone antibody, HIST1H3A antibody, Histone cluster 1, H3a antibody
Observed band	15
Human Gene ID	8290
Human Swiss-Prot Number	P68431
Background	Histone H3 is one of the five main histone proteins involved in the structure of chromatin in eukaryotic cells. 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.

## Selected Validation Data



Western blot analysis of 1) HeLa, 2) Raw, 3) Mouse Brain Tissue, 4) Rat Brain Tissue with Histone H3 Mouse Monoclonal Antibody(1G1) diluted at 1:5,000.



IF analysis of HeLa with DAPI (Left) and Histone H3 Mouse Monoclonal Antibody(1G1)(Right) diluted at 1:200.