

# Histone H4 (mono methyl K16) Antibody

Rabbit mAb Catalog # AP90479

#### **Product Information**

ApplicationWB, IF, ICCPrimary AccessionP62805

Reactivity Human, Mouse Clonality Monoclonal

**Other Names** H4; H4/n; H4F2; H4FN; FO108; HIST2H4; H4K16me1;

IsotypeRabbit IgGHostRabbitCalculated MW11367

### **Additional Information**

**Dilution** WB 1:500~1:2000 ICC/IF 1:500~1:2000

**Purification** Affinity-chromatography

**Immunogen**A synthesized peptide derived from human Histone H4 (mono methyl K16) **Description**Histones are basic nuclear proteins that are responsible for the nucleosome

structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order

chromatin structures.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

### **Protein Information**

Name H4C1

Synonyms H4/A, H4FA, HIST1H4A

**Function** 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

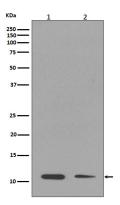
of histones, also called histone code, and nucleosome remodeling.

Cellular Location Nucleus {ECO:0000250|UniProtKB:P62806}. Chromosome. Note=Localized to

the nucleus when acetylated in step 11 spermatids.

{ECO:0000250 | UniProtKB:P62806}

## **Images**



Western blot analysis of Histone H4 (mono methyl K16) expression in (1) NIH/3T3 cell lysate; (2) A549 cell lysate.

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