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Histone H4 (mono methyl K16) Antibody

Rabbit mAb
Catalog # AP90479

Product Information

Application	WB, IF, ICC
Primary Accession	P62805
Reactivity	Human, Mouse
Clonality	Monoclonal
Other Names	H4; H4/n; H4F2; H4FN; FO108; HIST2H4; H4K16me1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	11367

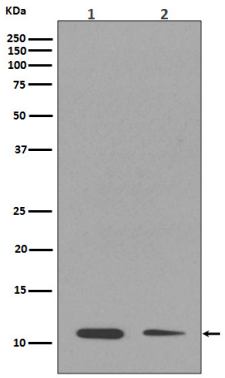
Additional Information

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.