

## ARG43037 anti-Histone H4 acetyl (Lys91) antibody

Package: 50 µl  
Store at: -20°C

### Summary

|                     |   |
|---------------------|---|
| Product Description | Rabbit Polyclonal antibody recognizes Histone H4 acetyl (Lys91)   |
| Tested Reactivity   | Hu, Ms, Rat   |
| Tested Application  | ICC/IF, WB  |
| Host                | Rabbit  |
| Clonality           | Polyclonal  |
| Isotype             | IgG   |
| Target Name         | Histone H4  |
| Species             | Human   |
| Immunogen           | Synthetic acetylated peptide around Lys91 of Human Histone H4.  |
| Conjugation         | Un-conjugated   |
| Alternate Names     | H4; H4/n; H4C1; H4C2; H4C3; H4C4; H4C5; H4C6; H4C8; H4C9; H4F2; H4FN; FO108; H4-16; H4C11; H4C12; H4C13; H4C15; HIST2H4; HIST2H4A |

### Application Instructions

| Application table | Application  | Dilution       |
|-------------------|--|----------------|
|                   | ICC/IF   | 1:50 - 1:200   |
|                   | WB   | 1:500 - 1:1000 |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                |
| Positive Control  | NIH/3T3 + TSA  |                |

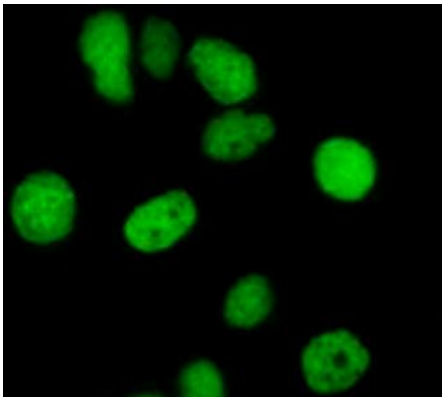
### Properties

|                     |   |
|---------------------|---|
| Form                | Liquid  |
| Purification        | Affinity purified.  |
| Buffer              | PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.  |
| Preservative        | 0.02% Sodium azide  |
| Stabilizer          | 50% Glycerol  |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.  |

## Bioinformation

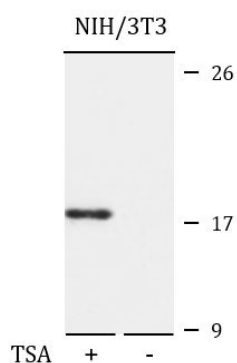
|                       |   |
|-----------------------|---|
| Gene Symbol           | H4C14   |
| Gene Full Name        | H4 clustered histone 14   |
| Background            | Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. 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. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H4 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in a histone cluster on chromosome 1. This gene is one of four histone genes in the cluster that are duplicated; this record represents the centromeric copy. [provided by RefSeq, Aug 2015] |
| 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. [UniProt]  |
| Calculated Mw         | 11 kDa  |
| Cellular Localization | Nucleus. Chromosome. [UniProt]  |

## Images



ARG43037 anti-Histone H4 acetyl (Lys91) antibody ICC/IF image

Immunofluorescence: HeLa cells were treated by TSA (1  $\mu$ M) at 37°C for 18 hours. Cells were stained with ARG43037 anti-Histone H4 acetyl (Lys91) antibody at 1:100 dilution.



ARG43037 anti-Histone H4 acetyl (Lys91) antibody WB image

Western blot: NIH/3T3 cells were untreated (-) or treated (+) by TSA (1  $\mu$ M) at 37°C for 18 hours. 25  $\mu$ g of cell lysates stained with ARG43037 anti-Histone H4 acetyl (Lys91) antibody at 1:1000 dilution.