10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# Anti-Histone H4 (MonoMethyl-R3) Antibody

Catalog # AP61503

## Product Information

| | |
|---|---|
| **Application** | WB, IF/IC |
| **Primary Accession** | P62805 |
| **Reactivity** | Human, Mouse, Rat, Pig, Chicken, Bovine |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 11367 |

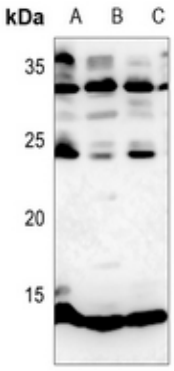
## Additional Information

| | |
|---|---|
| **Gene ID** | 121504;554313;8294;8359;8360;8361;8362;8363;8364;8365;8366;8367;8368;8370 |
| **Other Names** | H4/A; H4FA; H4/I; H4FI; H4/G; H4FG; H4/B; H4FB; H4/J; H4FJ; H4/C; H4FC; H4/H; H4FH; H4/M; H4FM; H4/E; H4FE; H4/D; H4FD; H4/K; H4FK; H4/N; H4F2; H4FN; HIST2H4; H4/O; H4FO; Histone H4 |
| **Target/Specificity** | KLH-conjugated synthetic Mono-methylated peptide corresponding to residues surrounding R3 of human Histone H4 protein. The exact sequence is proprietary. |
| **Dilution** | WB~~WB (1/500 - 1/1000) IF/IC~~N/A |
| **Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

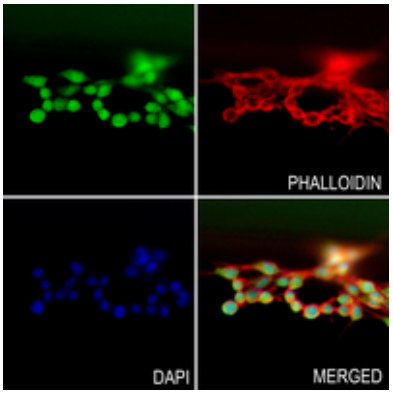
## Protein Information

| | |
|---|---|
| **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} |

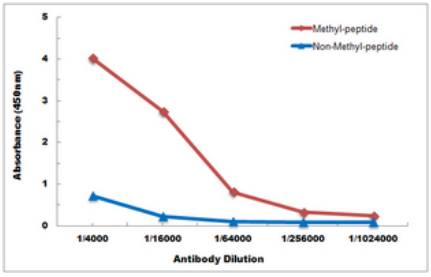
## Images




Western blot analysis of Histone H4 (MonoMethyl-R3) expression in HEK293T (A), A549 (B), U2OS (C) whole cell lysates. (Predicted band size: 11 kD; Observed band size: 14 kD)




Immunofluorescent analysis of Histone H4 (MonoMethyl-R3) staining in C6 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).




Direct ELISA antibody dose-response curve using Anti-Histone H4 (MonoMethyl-R3) Antibody. Antigen (methyl-peptide and non-methyl-peptide) concentration is 5 ug/ml. Goat Anti-Rabbit IgG (H&L) - HRP was used as the secondary antibody, and signal was developed by TMB substrate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.