

# Anti-Histone H3 (MonoMethyl-R8) Antibody

Catalog # AP61433

## Product Information

|                   |                                                                          |
|-------------------|--------------------------------------------------------------------------|
| Application       | WB, IHC, IF/IC                                                           |
| Primary Accession | <a href="#">P68431</a>                                                   |
| Other Accession   | <a href="#">Q71DI3</a> , <a href="#">P84243</a> , <a href="#">Q6NXT2</a> |
| Reactivity        | Human, Mouse, Rat, Zebrafish, Pig, Chicken, Bovine                       |
| Host              | Rabbit                                                                   |
| Clonality         | Polyclonal                                                               |
| Calculated MW     | 15404                                                                    |

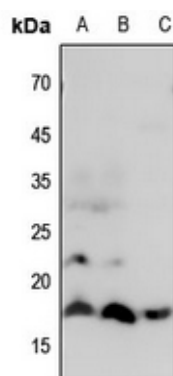
## Additional Information

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 8350;8351;8352;8353;8354;8355;8356;8357;8358;8968                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Other Names        | HIST1H3A; H3FA; HIST1H3B; H3FL; HIST1H3C; H3FC; HIST1H3D; H3FB; HIST1H3E; H3FD; HIST1H3F; H3FI; HIST1H3G; H3FH; HIST1H3H; H3FK; HIST1H3I; H3FF; HIST1H3J; H3FJ; Histone H3.1; Histone H3/a; Histone H3/b; Histone H3/c; Histone H3/d; Histone H3/f; Histone H3/h; Histone H3/i; Histone H3/j; Histone H3/k; Histone H3/l; HIST2H3A; HIST2H3C; H3F2; H3FM; HIST2H3D; Histone H3.2; Histone H3/m; Histone H3/o; H3F3A; H3.3A; H3F3; PP781; H3F3B; H3.3B; Histone H3.3; H3F3C; Histone H3.3C; Histone H3.5 |
| Target/Specificity | KLH-conjugated synthetic Mono-methylated peptide corresponding to residues surrounding R8 of human Histone H3 protein. The exact sequence is proprietary.                                                                                                                                                                                                                                                                                                                                               |
| Dilution           | WB~~WB (1/500 - 1/1000), IH (1/50 - 1/200) IHC~~1:100~500 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                                                                                                                                                                                                                                                                                                                                                                                                                                               |

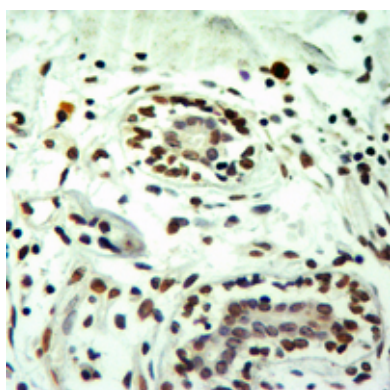
## Protein Information

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name     | H3C1 ( <a href="#">HGNC:4766</a> )                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Synonyms | H3FA, HIST1H3A                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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. |

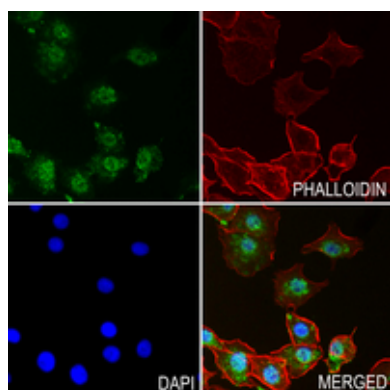
## Images



Western blot analysis of Histone H3 (MonoMethyl-R8) expression in HEK293T (A), H1792 (B), A549 (C) whole cell lysates. (Predicted band size: 15 kDa; Observed band size: 17 kDa)



Immunohistochemical analysis of Histone H3 (MonoMethyl-R8) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Histone H3 (MonoMethyl-R8) staining in A549 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 humidified 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).

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