**Background**

Post-translation modifications of histones modulate the accessibility and transcriptional competence of specific chromatin regions within the eukaryotic genome. Histone H3 is primarily acetylated at lysines 9, 14, 18, and 23. Acetylation at lysine 9 appears to have a dominant role in histone deposition and chromatin assembly.

**Product type** Primary antibodies

**Immunogen** Synthetic peptide corresponding to N-terminal Lys9ac (aa 1-19) of human Histone H3, ARTKQTAR(acK)STGGKAPRKQ

**Raised in** Rat

**Myeloma** SP2

**Clone number** 2G1F9

**Isotype** Rat IgG2a, κ

**Host** -

**Source** Culture supernatant

**Purification** Ion-exchange chromatography

**Form** Liquid

**Storage buffer** PBS containing 50% Glycerol, 0.05% NaN₃ as a preservative

**Concentration** 1 mg / ml

**Volume** 100 ul

**Label** Unlabeled

**Specificity** Histone H3 K9ac (1-19) Epitope: Acetylated Lys9 of Histone H3

**Cross reactivity** Human, Monkey, Mouse, Rat, Hamster

**Storage** Store below -20°C (below -70°C for prolonged storage)

**Other** Data Link: UniProtKB/Swiss-Prot P68431

* recommended positive controls is mammalian cell

**Application notes**

- Western blotting: 1/1000 - 1/5000
- Immunocytochemistry: 1/100 – 1/500
- Immunohistochemistry: 1/100 – 1/500
- ChIP

Other applications have not been tested.

Optimal dilutions/concentrations should be determined by the end user.

**References**

1) Strahl and Allis, Nature. 2000 Jan 6;403(6765):41-5. PMID: 10638745
ANTI BODY CHARACTERIZATION

Fig. 1  The composition of Histone H3 peptides and the reactivity of Histone H3 K9Ac antibody, 2G1F9.

Fig. 2 Western blot analysis of HeLa whole cell extracts using Histone H3 K9ac antibody, 2G1F9.

Fig. 3  Immunocytochemical analysis of HeLa Cell using Histone H3 K9ac antibody, 2G1F9.
### RELATED PRODUCTS:

<table>
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<th>Product Name</th>
<th>Clone</th>
<th>Application</th>
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