



MONOCLONAL ANTIBODY

For research use only. Not for clinical diagnosis

Catalog No. CEC-004

Anti- Histone H3 K9Ac

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 antibody
Immunogen	Synthetic peptide corresponding to N-terminal Lys9ac (aa 1-19) of human Histone H3, ARTKQTAR(acK)STGGKAPRKQ
Host	Rat
Clone number	2G1F9
Isotype	IgG2a, κ
Source	Culture supernatant
Purification	Ion-exchange chromatography
Form	Liquid
Presentation	Purified monoclonal antibody in PBS, 50% Glycerol, 0.05%w/v ProClin300
Concentration	1 mg/mL
Volume	100 μ L
Label	Unlabeled
Specificity	Histone H3 K9ac (1-19) Epitope : Acetylated Lys9 of Histone H3
Cross reactivity	Human, Monkey, Mouse, Rat, Hamster Other species have not been tested.
Storage	Store below -20°C (below -70°C for prolonged storage) Aliquot to avoid cycles of freeze/thaw.
Other	Data Link: UniProtKB/Swiss-Prot P68431 * recommended positive controls is mammalian cell

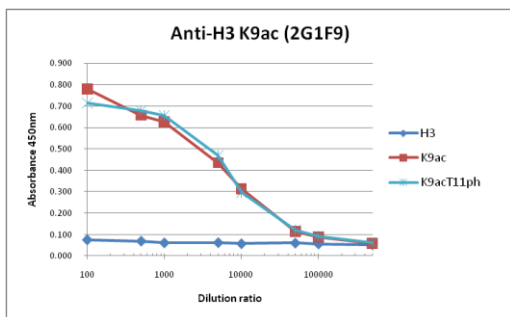
Application notes **Recommended use**
WB, ICC, IHC Not tested for other applications.

Recommended dilutions
Western blotting, 1/1000 (Fig.2)
Immunocytochemistry, 1/1000 (Fig.3)

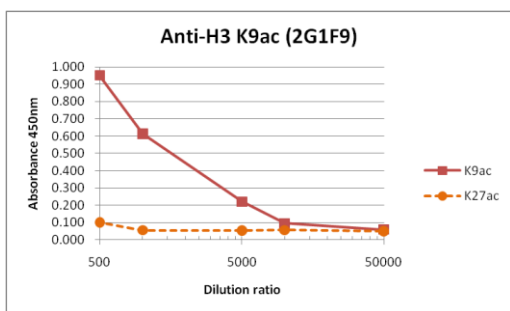
Optimal dilutions/concentrations should be determined by the end user.

References 1) Strahl and Allis, Nature. 2000 Jan 6;403(6765):41-5. PMID: [10638745](#)

ANTIBODY CHARACTERIZATION



H3 peptide 1 ARTKQTARK ST GGKAPRKQ 19
 H3 K9ac peptide 1 ARTKQTARK_{ac}ST GGKAPRKQ 19
 H3 K9acT11ph peptide 1 ARTKQTARK_{ac}ST_{ph}GGKAPRKQ 19



H3 K9ac peptide 1 ARTKQTARK_{ac}STGGKAPRKQ 19
 H3 K27ac peptide 21 ATKAARK_{ac}SAPATGGVKKPH 39

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

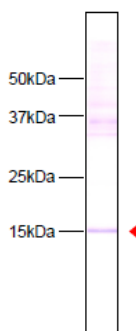
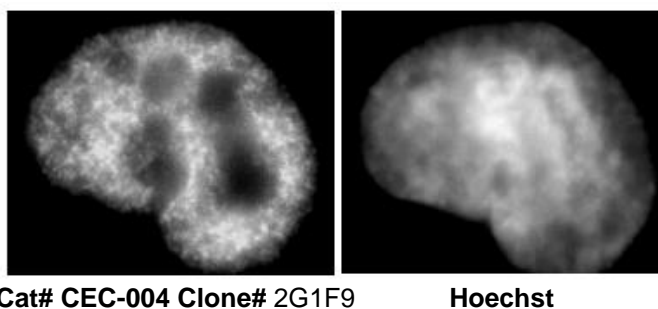


Fig.2 Western blot analysis of HeLa whole cell extracts using Histone H3 K9ac antibody, 2G1F9.



Cat# CEC-004 Clone# 2G1F9

Hoechst

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

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