Monoclonal Antibody
Catalog No. CEC-004

For research use only.
Not for use in diagnostic procedures.

Anti-Histone H3 K9Ac antibody

Clone	Cross reactivity	Application notes	Host	Isotype	Storage
2G1F9	Hu, Mk, Ms, Rat, Hms	WB, ICC	Rat	IgG2a, κ	-20°C

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.

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

Host Rat
Isotype IgG2a, κ
Cross reactivity Human, Monkey, Mouse, Rat, Hamster

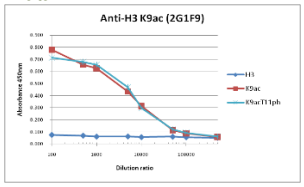
Specificity Histone H3 K9Ac
Application notes Recommended use
ELISA, WB, ICC Not tested for other applications.
Recommended dilutions
Western blotting, 1/1000
Immunocytochemistry, 1/1000

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

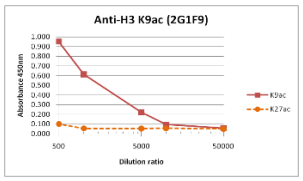
Source Culture Supernatant
Purification Ion-exchange chromatography
Form Liquid
Presentation Purified monoclonal antibody in PBS, 50% Glycerol, 0.05%w/v ProClin300
Concentration 1 mg/mL
Volume 100 μL
Storage Store below -20°C
(below -70°C for prolonged storage)
Aliquot to avoid cycles of freeze/thaw.

References 1) Strahl and Allis, (2000) Nature 403, 41-45.

Data



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 ELISA analysis
- Histone H3 K9ac antibody (2G1F9)

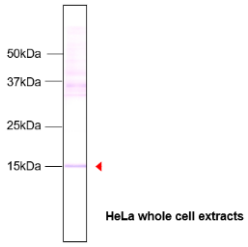


Fig.2 Western blot
- Histone H3 K9ac antibody (2G1F9)
HeLa cell total extracts

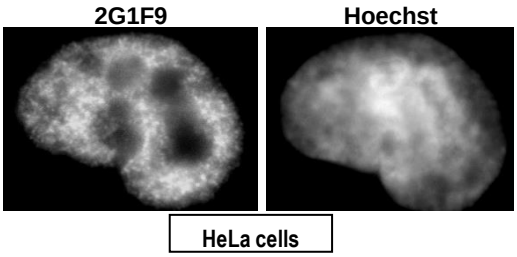


Fig.3 Immunocytochemistry/Immunofluorescence
- Histone H3 K9ac antibody (2G1F9)
HeLa cells

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