Monoclonal Antibody
Catalog No. CEC-010

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

Anti-Histone H3.1 S28 antibody

Clone	Cross reactivity	Application notes	Host	Isotype	Storage
5D10D4	Mammals	WB, ICC, ChIP	Rat	IgG2a, κ	-20°C

BACKGROUND : Nucleosomes are composed of four different histone proteins, designated H3, H4, H2A, and H2B. Histone H3 has two main variants, H3.1 and H3.3, which show different genomic localization patterns in eukaryotes. Histone H3.3 serves as the replacement variant for the DNA-synthesis-independent deposition pathway.
Post-translation modifications of histones modulate the accessibility and transcriptional competence of specific chromatin regions within the eukaryotic genome. Phosphorylation of histone H3 is unique in the sense that it associates on one hand with open chromatin during gene activation and marks on the other hand highly condensed chromatin during mitosis.

Immunogen Synthetic peptide corresponding to N-terminus region Ser28ph (aa 21-39) of human Histone H3.1, ATKAARK(phS)APATGGVKKPH

Host Rat
Isotype IgG2a, κ
Cross reactivity Mammals

Specificity Histone H3.1 S28ph
Application notes Recommended use
ELISA, WB, ICC, ChIP
Recommended dilutions
Western blotting, 1/1000 to 1/5000
Immunocytochemistry, 1/100 to 1/500

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) Yoshimi et al., (2013) Monoclon Antib Immunodiagn Immunother, 32, 119-124
This antibody is used in ref.1.

Data

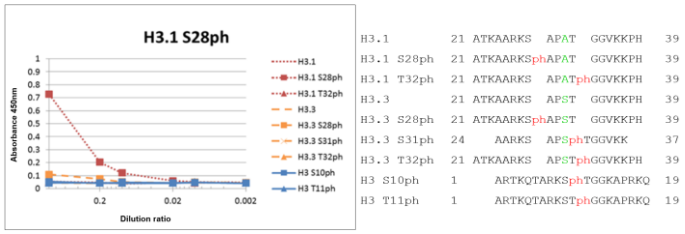

Fig.1 ELISA analysis
- Histone H3.1 S28ph antibody (5D10D4)

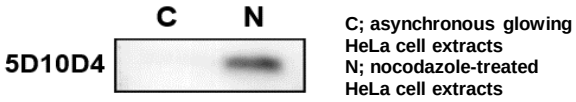

Fig.2 Western blot
- Histone H3.1 S28ph antibody (5D10D4)
the treated-cell extracts

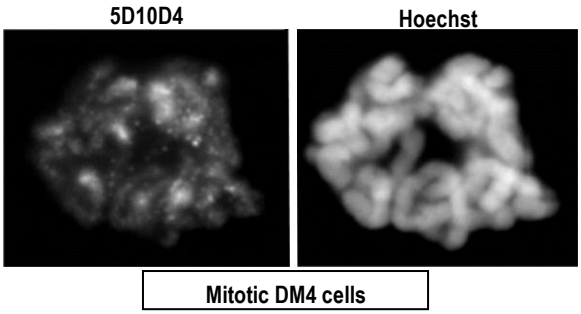

Fig.3 Immunocytochemistry/Immunofluorescence
- Histone H3.1 S28ph antibody (5D10D4)
DM4 cells

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