MONOCLONAL ANTIBODY

For research use only. Not for clinical diagnosis

Catalog No. CE-040B

Version#: 7-201125

Anti Histone H3.3 [Clone: 4H2D7]

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. Deposition of Histone H3.1 is coupled to DNA synthesis during DNA replication and possibly DNA repair.

Product type Primary antibody

Immunogen Synthetic peptide corresponding to N-terminus region (aa 21-39) of human Histone H3.3,

ATKAAR(acK)SAPSTGGVKKPH

Host -

Source Culture supernatant

Purification Ion-exchange chromatography

Form Liquid

Storage buffer PBS containing 50% Glycerol, 0.05% ProClin 300

Concentration1 mg / mlVolume50 ulLabelUnlabeled

Specificity Histone H3.3, Epitope: Histone H3.3 (21-39)

* Human(HeLa), monkey(COS1), mouse(NIH3T3)

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 P84243

Application notes

Western blotting: 1/1000 – 1/5000

Recommended dilutions

Immunocytochemistry: 1/500

• Immunohistochemistry: 1/100 – 1/500

· ChIP · IP

Other applications have not been tested.

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

References

1) Hake SB, et al., Proc Natl Acad Sci U S A. 2006 Apr 25;103(17):6428-35. PMID: 16571659

2) Harada, et al., EMBO J. 2012 Jun 29;31(13):2994-3007. PMID: 22569126

^{*} This antibody is used in ref.2.

ANTIBODY CHARACTERIZATION

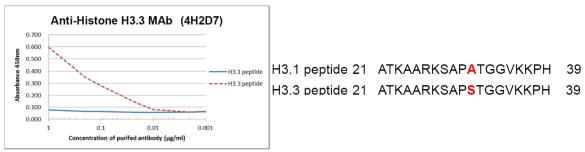


Fig.1 The composition of Histone H3 variants peptides and the reactivity of Histone H3.3 antibody (4H2D7).

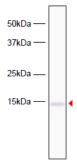


Fig.2 Western blot analysis of HeLa cell extracts using Histone H3.3 antibody (4H2D7).

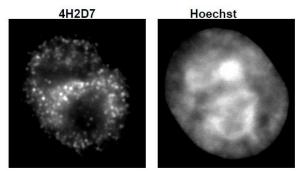


Fig.3 Immunocytochemical analysis of HeLa Cell using Histone H3.3 antibody (4H2D7).

RELATED PRODUCTS:

Product Name	Clone	Application	Maker	Cat#
Anti Histone H3.1/3.2 (Variant) Monoclonal Antibody	6G3C7	WB	CAC	CE-039A
Anti Histone H3.1/3.2 (Variant) Monoclonal Antibody	1D4F2	ChIP/ WB/ IC/ IHC/ IP	CAC	CE-039B
Anti Histone H3.3 (Variant) Monoclonal Antibody	6C4A3	WB	CAC	CE-040A
Anti Histone H3.3 (Variant) Monoclonal Antibody	4H2D7	ChIP/ WB/ IC/ IHC/ IP	CAC	CE-040B
Anti Histone H3 S10ph Monoclonal Antibody	6G8B7	WB/ IC	CAC	CE-034A
Anti Histone H3 T11ph Monoclonal Antibody	6G12C5	WB/ IC	CAC	CE-035A
Anti Histone H3 T32ph Monoclonal Antibody	6C7G12	WB/ IC	CAC	CE-036A
Anti Histone H3 K9Ac Monoclonal Antibody	2G1F9	WB/ IC	CAC	CE-037A
Anti RNA polymerase 2, CTD Ser2ph Monoclonal Antibody	3E7C7	ChIP/ WB/ IC	CAC	CE-030A
Anti RNA polymerase 2, CTD Ser5ph Monoclonal Antibody	1H4B6	ChIP/ WB/ IC	CAC	CE-031A

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