

Anti-Histone H3.3 antibody(Clone No.4H2D7)

Clone	Cross reactivity	Application notes	Host	Isotype	Storage
4H2D7	Hu, Mk, Ms, Rat, Hms	WB, ICC, IHC, ChIP, IP	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.

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

Host Rat

Isotype IgG2a, κ

Cross reactivity Human, Monkey, Mouse, Rat, Hamster

Specificity Histone H3.3

Application notes Recommended use

ELISA, WB, ICC, IHC, ChIP, IP

Recommended dilutions

Western blotting, 1/1000

Immunocytochemistry, 1/2500

Immunohistochemistry, 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 50 μ L

Storage Store below -20°C

(below -70°C for prolonged storage)

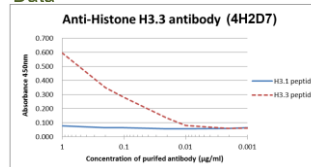
Aliquot to avoid cycles of freeze/thaw.

References 1) Hake and Allis, (2006) PNAS, 103, 6428-6435.

2) Harada et al., (2012) EMBO J. doi: 10.1038/emboj.2012.136.

This antibody is used in ref.2.

Data



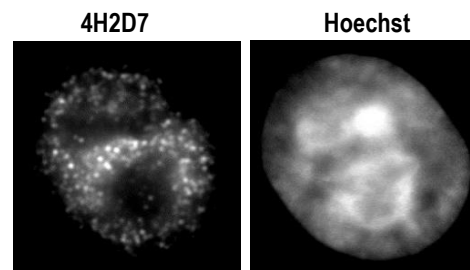
H3.1 peptide 21 ATKAARKSAPSTGGVKKPH 39

H3.3 peptide 21 ATKAARRSAPSTGGVKKPH 39

Fig.1 ELISA analysis
- Histone H3.3 antibody (4H2D7)



Fig.2 Western blot
- Histone H3.3 antibody (4H2D7)
HeLa cell total extracts



HeLa cells

Fig.3 Immunocytochemistry/Immunofluorescence
- Histone H3.3 antibody (4H2D7)
HeLa cells