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Inspiration for Life Science

MONOCLONAL ANTIBODY

For research use only. Not for clinical diagnosis

Catalog No. CEC-005

Anti- Histone H3.1/H3.2 [Clone : 6G3C7]

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 core region (aa 79-97) of human H3.1, KTDLRFQSSAVMALQEASE
Host	Rat
Clone number	6G3C7
Isotype	IgG1, λ
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
Label	Unlabeled
Specificity	Histone H3.1/3.2, Epitope: **Histone H3.1/3.2(79-94)** * Human(HeLa), Monkey(COS1), Mouse(NIH3T3), Rat(NRK), Dog(MDCK)
Cross reactivity	Human, Monkey, Mouse, Rat, Hamster Other species have not been tested.
Storage	Store below -20℃ (below -70℃ for prolonged storage) Aliquot to avoid cycles of freeze/thaw.
Other	**Data Link**:UniProtKB/Swiss-Prot P68431

Application notes

Recommended use

WB Not tested for other applications.

Recommended dilutions

Western blotting, 1/10000 (Fig.2)

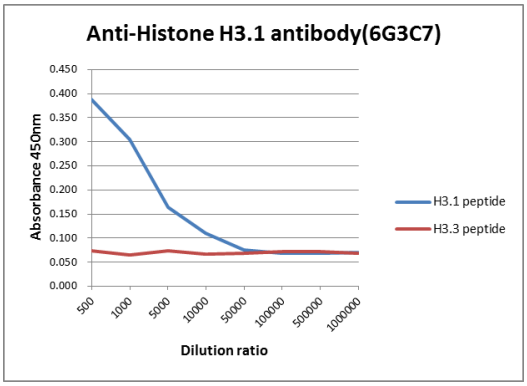
Optimal dilutions/concentrations should be determined by the end user.

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.

ANTIBODY CHARACTERIZATION



H3.1 peptide 79 KTDLRFQSSAVMALQEASEA 97

H3.3 peptide 79 KTDLRFQSAAIGALQEASEA 97

Fig.1 The composition of Histone H3 variants peptides and the reactivity using Histone H3.1 antibody, 6G3C7.

Fig.2 Western blot analysis of recombinant protein and mammalian cell extracts using Histone H3.1 antibody, 6G3C7.

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