COSMO BIO CO., LTD.
Inspiration for Life Science

MONOCLONAL ANTIBODY

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Catalog No. CEC-003

Anti- Histone H3 T32ph

BACKGROUND
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.

Product type	Primary antibody
Immunogen	Synthetic peptide corresponding to N-terminus region Thr32ph (aa 21-39) of human Histone H3, ATKAARKSAPS(phT)GGVKKPH
Host	Rat
Clone number	6C7G12
Isotype	IgG2a, κ
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 T32ph Epitope : phosphorylated Thr32 of Histone H3
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 * recommended positive controls is **mammalian cell**

Application notes

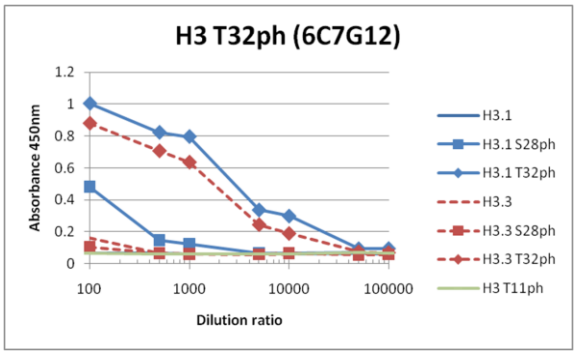
Recommended use
WB, ICC Not tested for other applications.

Recommended dilutions
Western blotting, 1/500 (Fig.2)
Immunocytochemistry, 1/500 (Fig.3)
Optimal dilutions/concentrations should be determined by the end user.

References

1) Strahl and Allis, Nature. 2000 Jan 6;403(6765):41-5. PMID: 10638745

ANTIBODY CHARACTERIZATION



H3.1	21	ATKAARKS APAT GGVKKPH	39
H3.1 S28ph	21	ATKAARKSphAPAT GGVKKPH	39
H3.1 T32ph	21	ATKAARKS APATphGGVKKPH	39
H3.3	21	ATKAARKS APST GGVKKPH	39
H3.3 S28ph	21	ATKAARKSphAPST GGVKKPH	39
H3.3 T32ph	21	ATKAARKS APSTphGGVKKPH	39
H3 T11ph	1	ARTKQTARKSTphGGKAPRKQC	19

Fig.1 The composition of Histone H3 peptides and the reactivity of Histone H3 T32ph antibody, 6C7G12.

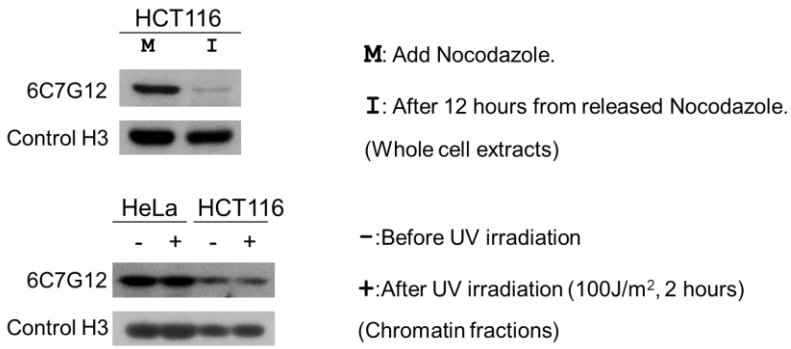


Fig.2 Western blot analysis of the treated-cell extracts using Histone H3 T32ph antibody, 6C7G12

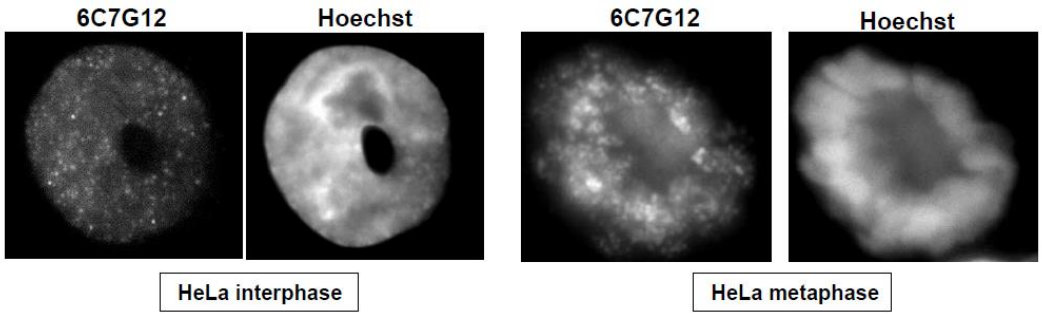


Fig.3 Immunocytochemical analysis of HeLa Cell using Histone H3 T32ph antibody, 6C7G12. (left : interphase, right : metaphase)

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