



MONOCLONAL ANTIBODY

For research use only. Not for clinical diagnosis

Catalog No. CEC-002

Anti-Histone H3 T11ph

BACKGROUND

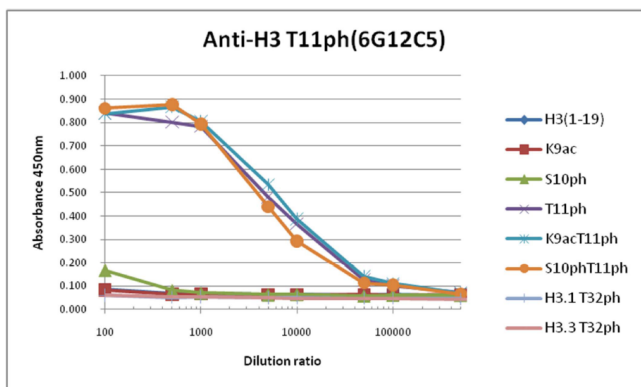
Post-translation modifications of histones modulate the accessibility and transcriptional competence of specific chromatin regions within the eukaryotic genome. Phosphorylation of histone H3 Threonine 11 (H3-T11ph) occurs throughout the cell cycle and is Chk1 dependent. It has reported that DNA damage rapidly reduces H3-T11 phosphorylation.

Product type	Primary antibody
Immunogen	Synthetic peptide corresponding to N-terminal Thr11ph (aa 1-19) of human Histone H3, ARTKQTARKS(phT)GGKAPRKQ
Host	Rat
Clone number	6G12C5
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 μ L
Label	Unlabeled
Specificity	Histone H3 T11ph Epitope : phosphorylated Thr11 of Histone H3
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 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.
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References	1) Shimada M, <i>et al.</i> , Cell. 2008 Jan 25;132(2):221-32. PMID: 18243098
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ANTIBODY CHARACTERIZATION



H3	1 ARTKQTARK S T GGKAPRKQC 19
H3 K9ac	1 ARTKQTARK ^{ac} S T GGKAPRKQC 19
H3 S10ph	1 ARTKQTARK ^S phT GGKAPRKQC 19
H3 T11ph	1 ARTKQTARK S ^T phGGKAPRKQC 19
H3 K9acT11ph	1 ARTKQTARK ^{ac} S ^T phGGKAPRKQC 19
H3 S10phT11ph	1 ARTKQTARK ^S ph ^T phGGKAPRKQC 19
H3.1 T32ph	21 ATKAARKSAPA ^T phGGVKKPH 39
H3.3 T32ph	21 ATKAARKSAPS ^T phGGVKKPH 39

Fig.1 The composition of Histone H3 peptides and the reactivity of Histone H3 T11ph antibody, 6G12C5.

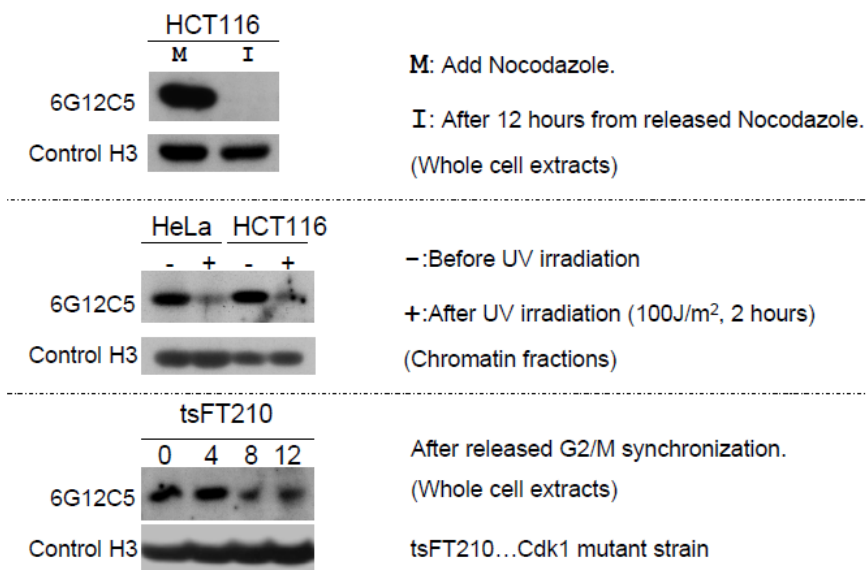


Fig.2 Western blot analysis of the treated-cell extracts using Histone H3 T11ph antibody, 6G12C5.

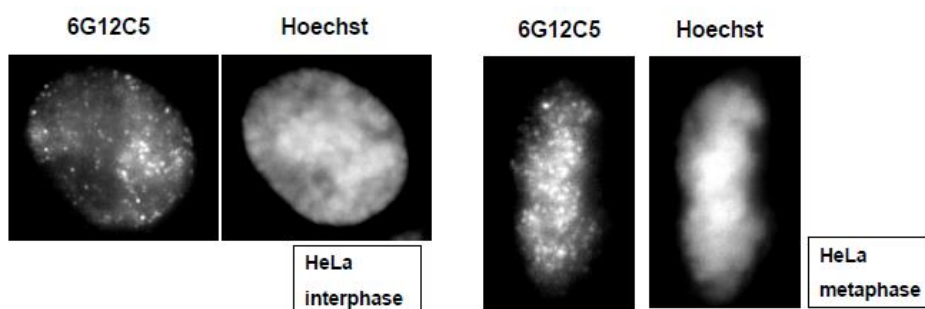


Fig.3 Immunocytochemical analysis of HeLa Cell using Histone H3 T11ph antibody, 6G12C5 (left : interphase, right : metaphase).

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COSMO BIO Co., LTD.

[JAPAN]
TOYO EKIMAE BLDG. 2-20, TOYO 2-CHOME,
KOTO-KU. TOKYO 135-0016, JAPAN
Phone: +81-3-5632-9610
FAX: +81-3-5632-9619
URL: <https://www.cosmobio.co.jp/>



COSMO BIO USA

[Outside Japan]
2792 Loker Ave West, Suite 101
Carlsbad, CA 92010, USA
email: info@cosmobioussa.com
Phone/FAX: (+1) 760-431-4600
URL: www.cosmobioussa.com