

Anti-Histone H3 T32ph antibody

Clone	Cross reactivity	Application notes	Host	Isotype	Storage
6C7G12	Hu, Mk, Ms, Rat, Hms	WB, ICC, ChIP	Rat	IgG2a, κ	-20°C

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.

Immunogen Synthetic peptide corresponding to N-terminus region Thr32ph (aa 21-39) of human Histone H3, ATKAARKSAPS(pH)GGVKKPH

Host Rat

Isotype IgG2a, κ

Cross reactivity Human, Monkey, Mouse, Rat, Hamster

Specificity Histone H3 T32ph

Application notes Recommended use
ELISA, WB, ICC, ChIP Not tested for other applications.
Recommended dilutions
Western blotting, 1/500
Immunocytochemistry, 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 100 μ L

Storage Store below -20°C
(below -70°C for prolonged storage)
Aliquot to avoid cycles of freeze/thaw.

References 1) Strahl and Allis, (2000) Nature 403, 41-45.
2) Monoclon Antib Immunodiagn Immunother. 2013, 32, 119-24.
This antibody is used in ref.2.

Data

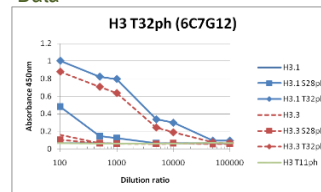
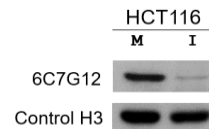
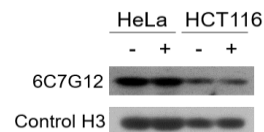


Fig.1 ELISA analysis
- Histone H3 T32ph antibody (6C7G12)



M: Add Nocodazole.

I: After 12 hours from released Nocodazole.
(Whole cell extracts)



-: Before UV irradiation

+: After UV irradiation (100J/m², 2 hours)
(Chromatin fractions)

Fig.2 Western blot
- Histone H3 T32ph antibody (6C7G12)
the treated-cell extracts

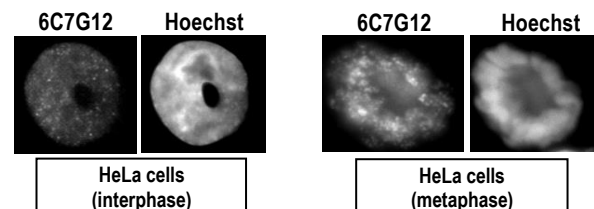


Fig.3 Immunocytochemistry/Immunofluorescence
- Histone H3 T32ph antibody (6C7G12)
HeLa cells (left : interphase, right : metaphase)