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-T11phosphorylation.

Product type
Primary antibody

Immunogen
Synthetic peptide corresponding to N-terminal Thr11ph (aa 1-19) of human Histone H3, ARTKQTARKS(phT)GGKAPRKQ

Rased in
Rat

Myeloma
SP2

Clone number
6G12C5

Isotype
IgG2a,κ

Host
-

Source
Culture supernatant

Purification
Ion-exchange chromatography

Form
Liquid

Storage buffer
PBS containing 50% Glycerol, 0.05% NaN₃ as a preservative

Concentration
1 mg / ml

Volume
100 ul

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

• Western blotting: 1/1000 – 1/5000

Recommended dilutions

• Immunocytochemistry: 1/100 -1/500

Other applications have not been tested.
Optimal dilutions/concentrations should be determined by the end user.

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

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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).

### RELATED PRODUCTS:

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<th>Product Name</th>
<th>Clone</th>
<th>Application</th>
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