

H3S10pT11p polyclonal antibody - Classic

Cat. No. C15410288

Type: Polyclonal

Source: Rabbit

Lot #: 001

Size: 50 µg

Concentration: 1.2 µg/µl

Specificity: Human, mouse, *C. elegans*, rat, chicken, *Xenopus*, *Drosophila*, plant

Purity: Affinity purified

Storage: Store at -20°C; for long storage, store at -80°C. Avoid multiple freeze-thaw cycles.

Precautions: This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Applications

	Suggested dilution	Results
ChIP	2-5 µg/million cells	
Immunohistochemistry	1:200	
IF	1:200	Figure 1
Western blot	1:500	Figure 2, 3

Target description

When confronted with DNA damage or the lack of certain kinases like Chk1 and Aurora1, histone H3 is phosphorylated at T11, causing a reduction in acetylation of the same histone at K9 and ultimately leading to a reduction of active transcription in affected cells. When the T11 phosphorylation is combined with a typical S10 phosphorylation that is critical in chromosome condensation in metaphase, the effect on transcriptional regulation is amplified further. Phosphorylation of H3S10 is decreased by T11 phosphorylation. Thus, detection of the combined modification is critical in determining transcriptional effects, especially when contrasted against single modifications of H3.

Results

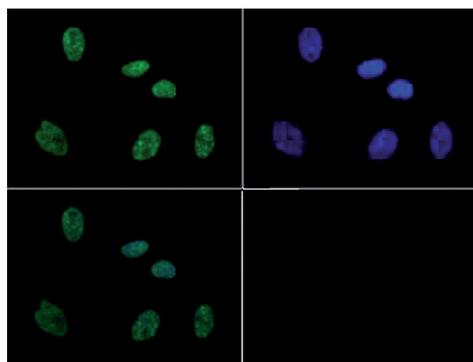


Figure 1. H3S10pT11p Immunofluorescence results

Immunofluorescence of H3S10pT11p antibody. Tissue: HeLa cells. Fixation: 0.5% PFA. Primary antibody: H3S10pT11p antibody at a 1:200 dilution for 1 h at RT. Secondary antibody: FITC secondary antibody at 1:10,000 for 45 min at RT. Localization: H3S10pT11p is nuclear and chromosomal. Staining: H3S10pT11p is expressed in green, nuclei are counterstained with Dapi (blue).

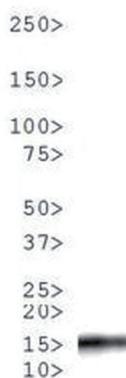


Figure 2 H3S10pT11p Western blot results

Western Blot of H3S10pT11p antibody. 30 µg *C. elegans* embryo lysate. Primary antibody: H3S10pT11p at a 1:500 dilution overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Predicted/Observed size: ~15 kDa. Other band(s): None.



Figure 3. H3S10pT11p Western blot results

Western Blot of H3S10pT11p antibody. 30 µg HeLa histone extracts. Primary antibody: H3S10pT11p at a 1:500 dilution overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Predicted/Observed size: ~15 kDa. Other band(s): None.