

Purified anti-Histone H3 Phospho (Ser10) Antibody

Catalog# / Size	650801 / 25 µg 650802 / 100 µg
Clone	11D8
Regulatory Status	RUO
Other Names	Histone-H3, H3
Isotype	Mouse IgG2b, κ
Description	Histone H3 is phosphorylated at serine 10 during mitosis and is found to be involved in transcriptional activation, chromatin decondensation, and chromosome compaction during cell division, by the action of Aurora kinase and NIMA kinases.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Modified synthetic peptide conjugated to KLH
Formulation	This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.05% sodium azide.
Preparation	The antibody was purified by antigen-affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	Upon receipt, store undiluted between 2°C and 8°C.
Application	WB - Quality tested IF - Verified
Recommended Usage	Each lot of this antibody is quality control tested by Western blotting . Western blotting, suggested working dilution(s): Use 1 µg per ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	The histone H3 pS10 antibody recognizes phosphorylation of human H3 protein at Ser10 residue and has been shown to be useful for Western blotting.
Product Citations	1. Friedman J, <i>et al.</i> 2018. J Immunother Cancer. 6:59. PubMed 2. Han G, <i>et al.</i> 2018. Nat Protoc. 2.014583333. PubMed
RRID	AB_10896911 (BioLegend Cat. No. 650801) AB_10900065 (BioLegend Cat. No. 650802)

Antigen Details

Structure	H3 is part of the nucleosome, comprised of an octameric complex with H2A, H2B, and H4 proteins.
Distribution	Nucleus
Function	H3 is a core component of the nucleosome that serves to wrap and compact DNA into chromatin. Histones, therefore, limit the accessibility of DNA, providing mechanisms for transcription regulation, DNA repair and replication, and chromosomal stability.
Interaction	Two molecules of H3 form a heterotetramer with two molecules of H4.
Biology Area	Cell Biology, Chromatin Remodeling/Epigenetics, DNA Repair/Replication, Transcription Factors

Molecular Family Phospho-Proteins

Antigen References

1. Choi HS, *et al.* 2005. *J. Biol. Chem.* 280:13545.
2. Goto H, *et al.* 2002. *Genes Cells* 7:11.
3. Garcia BA, *et al.* 2005. *Biochemistry* 44:13202.
4. Hans F, *et al.* 2001. *Oncogene* 20:3021.

Regulation H3 is regulated by acetylation, methylation, citrullination, phosphorylation, and ubiquitination.

Gene ID [8290](#)

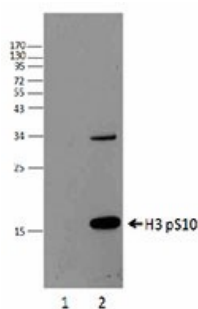
Related Protocols

[Western Blotting Protocol](#)

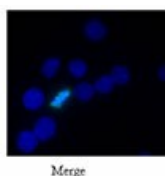
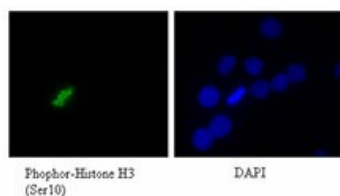
Other Formats

PE anti-Histone H3 Phospho (Ser10), Purified anti-Histone H3 Phospho (Ser10), Alexa Fluor® 488 anti-Histone H3 Phospho (Ser10), Alexa Fluor® 647 anti-Histone H3 Phospho (Ser10), Alexa Fluor® 594 anti-Histone H3 Phospho (Ser10)

Product Data



293T cell extracts were resolved by electrophoresis, transferred to nitrocellulose, and probed with purified anti-H3-pS10 clone 11D8 antibody. Proteins were visualized using an anti-mouse IgG secondary conjugated to HRP and chemiluminescence detection. Lane 1, is inter phase 293T cell extract; lane 2, is M phase 293T cell extract (overnight nocodazole-treated cells).



Exponentially growing HeLa cells were stained with purified phosphor-Histone H3 (Ser10), clone 11D8 antibody, followed by Alexa Fluor® 488 conjugated to anti-mouse IgG and DAPI. The phosphor-Histone staining is specific on metaphase cells only.

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