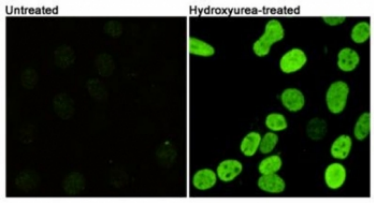
Phospho-Histone H2AX Antibody (pS139) (F55063)

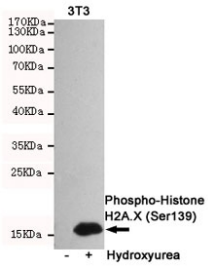
Catalog No.	Formulation	Size
F55063-0.1ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.1 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Purity	Antigen affinity purified
UniProt	P16104
Applications	Western blot: 1:1000-1:2000 Immunofluorescence: 1:200-1:400
Limitations	This Phospho-Histone H2AX antibody is available for research use only.



Immunofluorescent staining of mouse NIH 3T3 cells untreated (left) and treated (right) with Hydroxyurea, using Phospho-Histone H2AX antibody.



Western blot testing of cell lysate from mouse NIH 3T3 cells untreated (left) or treated (right) with Hydroxyurea, using Phospho-Histone H2AX antibody.

Description

Variant histone H2A which replaces conventional H2A in a subset of nucleosomes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post- translational modifications of histones, also called histone code, and nucleosome remodeling. Required for checkpoint-mediated arrest of cell cycle progression in response to low doses of ionizing radiation and for efficient repair of DNA double strand breaks (DSBs) specifically when modified by C-terminal phosphorylation. Included within the Histone H2A antibodies collection, this antibody enables analysis of histone modification patterns and chromatin regulatory mechanisms involving H2A and its variants.

Application Notes

Titration of the Phospho-Histone H2AX antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

The amino acid sequence surrounding phosphorylated serine 139 was used as the immunogen for the Phospho-Histone H2AX antibody.

Storage

Aliquot the Phospho-Histone H2AX antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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