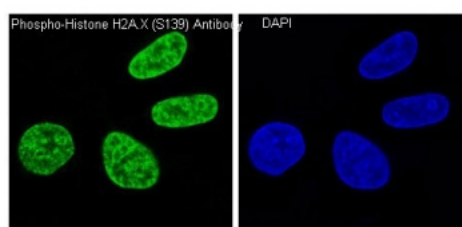


Phospho-Histone H2AX Antibody (pS139) [clone AbH41] (RQ4503)

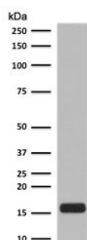
Catalog No.	Formulation	Size
RQ4503	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

[Bulk quote request](#)

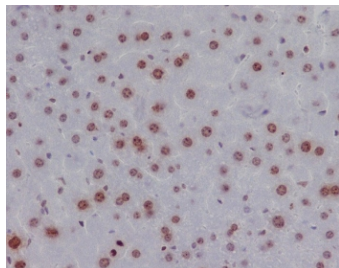
Availability	1-2 weeks
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	AbH41
Purity	Protein A affinity
UniProt	P16104
Localization	Nucleus
Applications	Western Blot : 1:500-1:1000ug/ml IHC (FFPE) : 1:50-1:200 IF/ICC : 1:50-1:200
Limitations	This phospho-Histone H2AX antibody is available for research use only.



Immunofluorescent staining of human HeLa cells treated and untreated with H₂O₂ using phospho-Histone H2AX antibody (green) and DAPI nuclear stain (blue).



Western blot testing of etoposide-treated human Jurkat lysate with phospho-Histone H2AX antibody.



IHC testing of FFPE mouse liver with phospho-Histone H2AX antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.

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. [UniProt]

Application Notes

Optimal dilution of the phospho-Histone H2AX antibody should be determined by the researcher.

Immunogen

The amino acids surrounding a phosphorylated serine at position 139 were used as the immunogen for the phospho-Histone H2AX antibody.

Storage

After reconstitution, the phospho-Histone H2AX antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.