Phospho-Histone H2A.X (Ser139) (1E4) rabbit mAb

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Catalog: #2231

Store at: -20ºC

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Detection	Clonality	Isotype
Flow Cytometry,WB	Anti-Rabbit IgG	Monoclonal	Rabbit IgGk

Format: Unconjugated

Cross Reactivity: Predicted to work with mouse, rat, and other homologues.

Formulation: 1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA

Preparation: Protein A+G

Reactivity: Human,Mouse

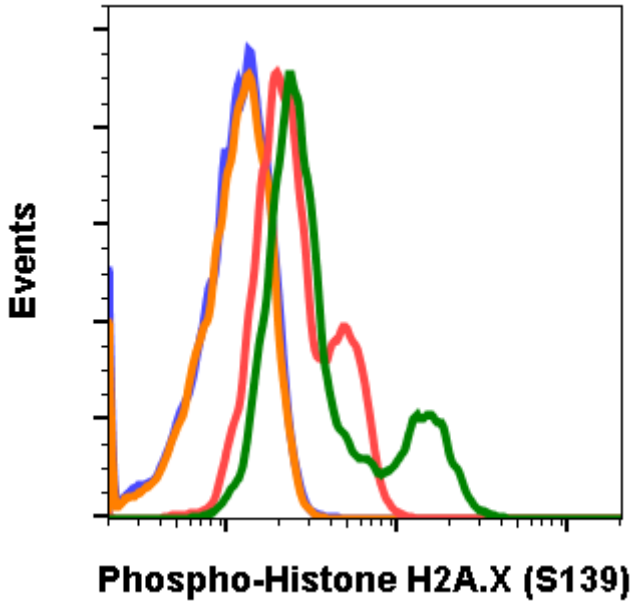
Recommended Usage: 1µg/mL – 0.001µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Ser139 of human phospho histone H2A.X.

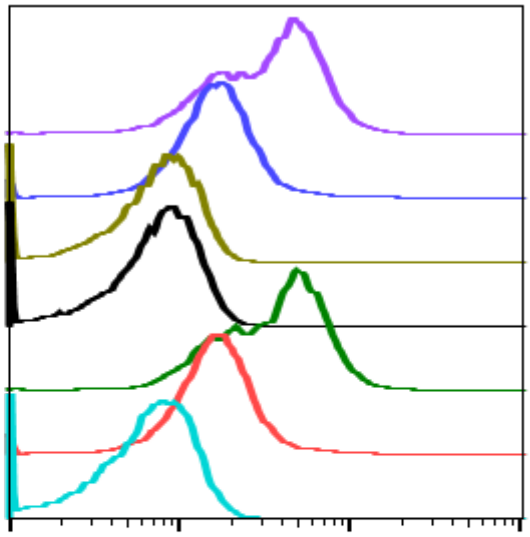
Description: Histone H2AX is a variant of the nucleosome core histone H2A and is phosphorylated at Ser139 in response to DNA damage. Histone H2AX phosphorylation is considered a specific reporter of double-strand DNA breaks. The protein is also referred to as γH2AX when phosphorylated at Ser139. H2AX phosphorylation is especially strong in response to double-strand breaks formed during apoptosis. However, physiological phosphorylation of Histone H2AX occurs when double-strand DNA breaks are formed during meiosis and V(D)J recombination. A549 and DU145 cell lines have been found to have higher expression levels of phosphorylated Histone H2AX compared to Jurkat, MCF-7, or HL-60 cell lines.

References:

Tanaka T, Halicka D, Huang X, et al. (2006) Cell Cycle. 5: 1940-1945.

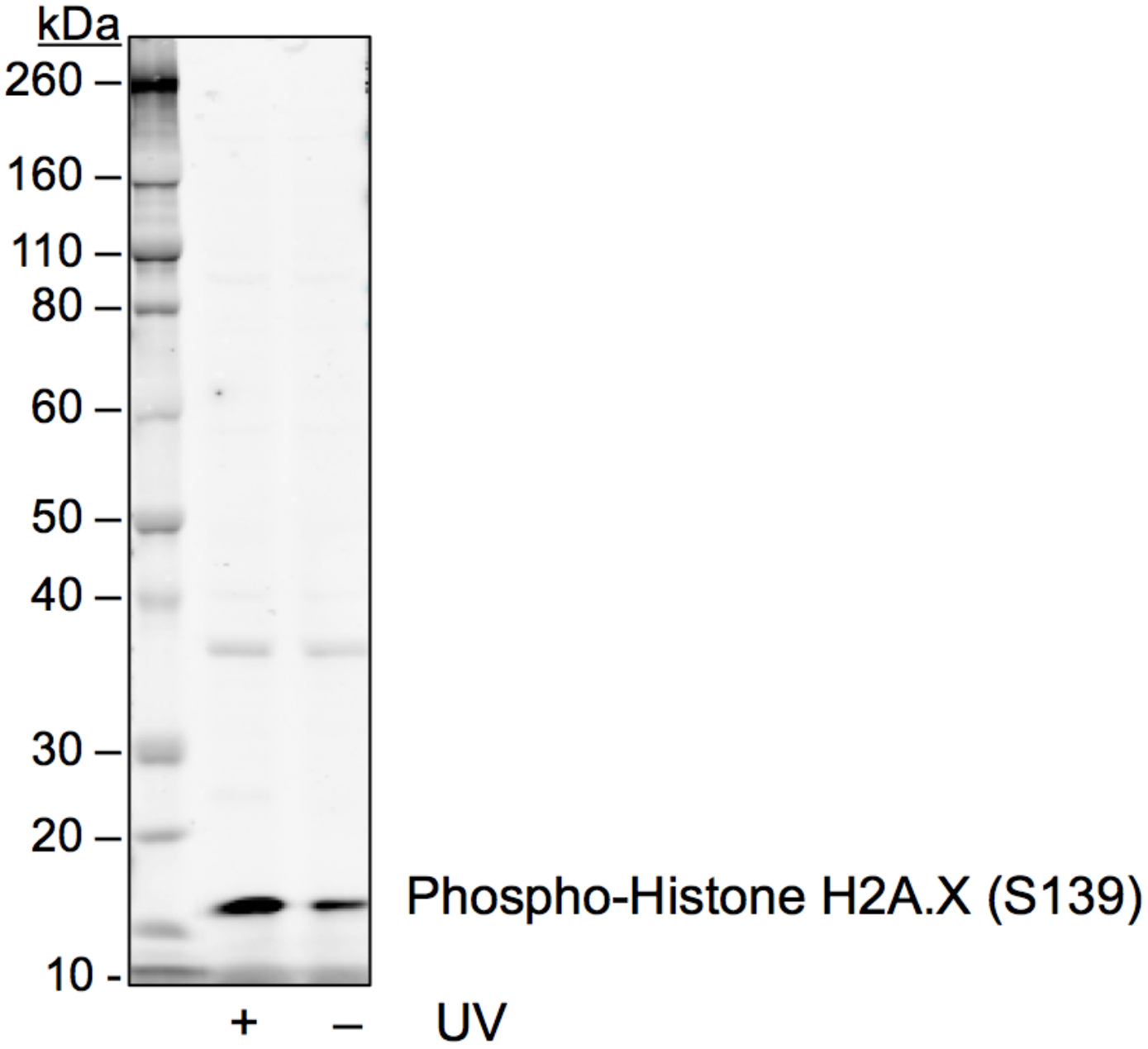


Flow cytometric analysis of 3T3 cells secondary antibody only (blue) or untreated with 0.1 µg/mL of isotype control Cat. #2141 (orange) or untreated (red) or UV and PMA-treated (green) using phospho-Histone H2A.X (Ser139) antibody HisH2AXS139-1E4 Cat. #2231.

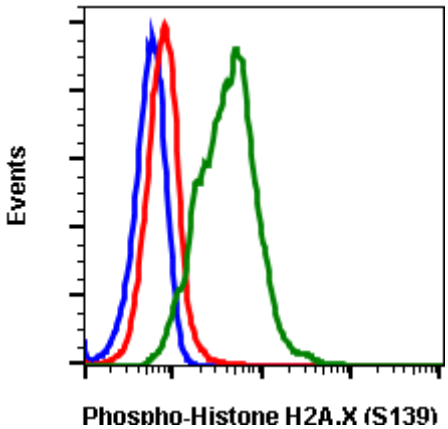


	SampleID	Median : BL1-A
	UV 1E4 N	3607
	Ctrl 1E4 N	1603
	UV 1E4 P	761
	Ctrl 1E4 P	759
	UV 1E4	3878
	Ctrl 1E4	1592
	Ctrl 2' only	648

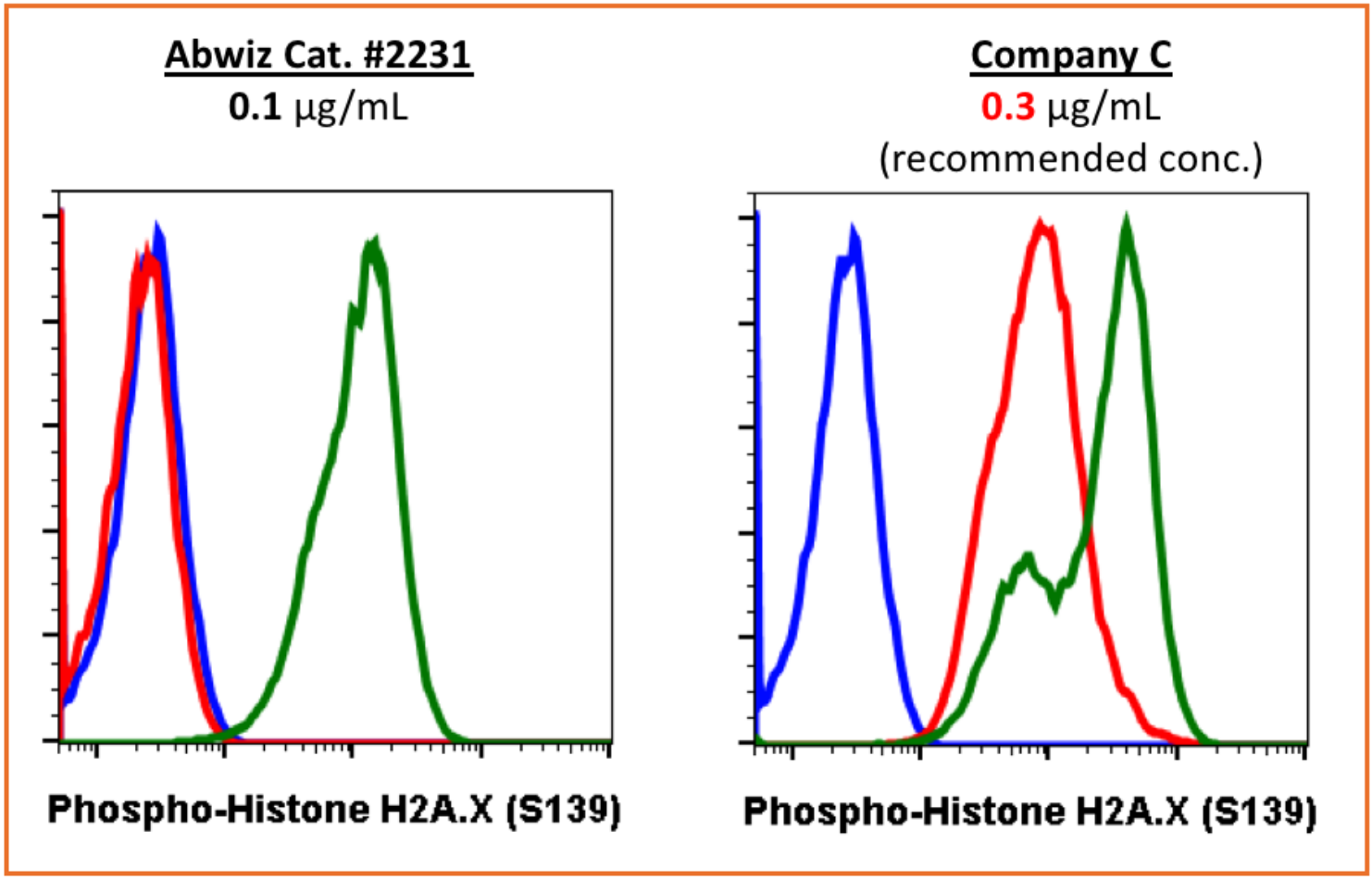
Peptide blocking flow cytometric analysis of 293T cells secondary antibody only negative control (blue) or untreated (red) or treated with UV and PMA (green) or untreated and blocked with phospho-peptide (black) or treated and blocked with phospho peptide (gold) or untreated and blocked with non-phospho peptide (dark blue) or treated and blocked with non-phospho peptide (purple) using Phospho-Histone H2A.X (Ser139) antibody HisH2AXS139-1E4 at 0.1 µg/mL. Cat. #2231.



Western blot analysis of HEK293T cell extract untreated or treated with UV using 0.05 µg/mL Phospho-Histone H2A.X (Ser139) antibody HisH2AXS139-1E4. Cat. #2231.



Flow cytometric analysis of 293T cells secondary antibody only negative control (blue) or untreated (red) or treated with UV and PMA (green) using Phospho-Histone H2A.X (Ser139) antibody HisH2AXS139-1E4 at 0.05 µg/mL. Cat. #2231.



Flow cytometric analysis of 293T cells secondary antibody only negative control (blue) or untreated (red) or treated with UV + TPA (green) using Phospho-Histone H2A.X (Ser139) antibody HisH2AXS139-1E4 (Abwiz Cat. #2231) at 0.1ug/mL or Company C antibody at 0.3ug/mL (manufacturer's recommended concentration).