

Product Datasheet

Phospho-Histone H2A.X (Ser139) (1B3) rabbit mAb Antibody (orb1946207)

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|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog Number | orb1946207 |
| Category | Antibodies |
| Description | <p>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 gH2AX 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.</p> |
| Clonality | Monoclonal |
| Species/Host | Rabbit |
| Isotype | Rabbit IgG1k |
| Conjugation | Unconjugated |
| Reactivity | Human, Mouse |
| Form/Appearance | Liquid |
| Concentration | 0.5 mg/mL |
| Buffer/Preservatives | 1X PBS, 0.02% NaN ₃ , 50% Glycerol, 0.1% rAlbumin |
| Purification | Protein A+G |

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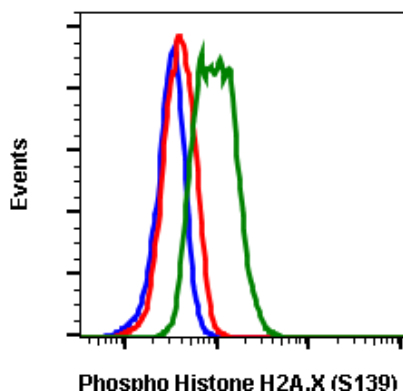
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| | |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen | A synthetic phospho-peptide corresponding to residues surrounding Ser139 of human phospho histone H2A.X. |
| UniProt ID | P16104 |
| Tested applications | FC, WB |
| Dilution range | 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. |
| Cross Reactivity | Predicted to work with mouse, rat, and other homologues. |
| Clone Number | HisH2AXS139-1B3 |
| Storage | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Note | For research use only |
| Expiration Date | 12 months from date of receipt. |



Flow cytometric analysis of C2C12 cells secondary antibody only (blue) untreated (red) or UV and PMA-treated (green) using phospho-Histone H2A.X (Ser139) antibody HisH2AXS139-1B3 at 0.1 ug/mL Cat. #orb1946207.

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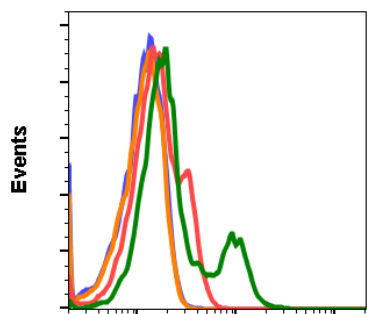
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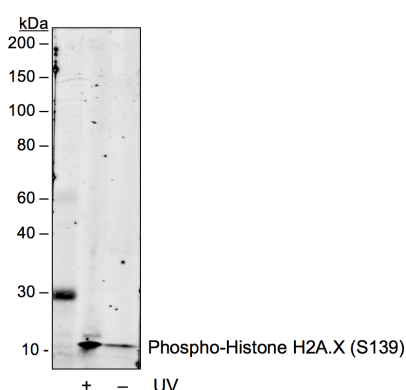
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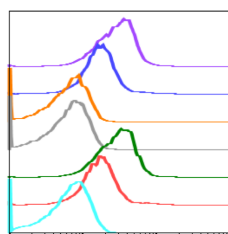
Phospho-Histone H2A.X (S139)

Flow cytometric analysis of 3T3 cells secondary antibody only (blue) or untreated with 0.1 µg/mL of isotype control Cat. #orb1946241 (orange) or untreated (red) or UV and PMA-treated (green) using phospho-Histone H2A.X (Ser139) antibody HisH2AXS139-1B3 Cat. #orb1946207.



Phospho-Histone H2A.X (S139)

Western blot analysis of 293T cell extract untreated or treated with UV using 0.05 ug/mL Phospho-Histone H2A.X (Ser139) antibody HisH2AXS139-1B3. Cat. #orb1946207.



| SampleID | Count | Median: BL1-A |
|-------------|-------|---------------|
| UV 1B3 NP | 7110 | 2877 |
| Ctl 1B3 NP | 11503 | 1662 |
| UV 1B3 P | 7239 | 645 |
| Ctl 1B3 P | 11123 | 651 |
| UV 1B3 | 6103 | 2930 |
| Ctl 1B3 | 11310 | 1659 |
| Ctl 2' only | 22467 | 655 |

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 (gray) or treated and blocked with phospho peptide (orange) 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 HisH2AXS139-1B3 at 0.1 µg/mL. Cat. #orb1946207.

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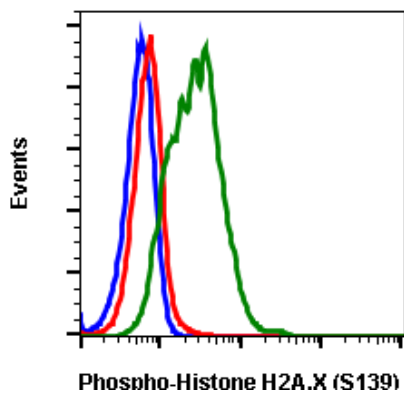
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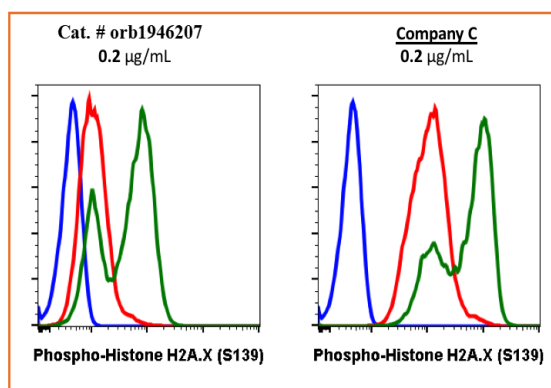
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Flow cytometric analysis of 293T cells secondary antibody only negative control (blue) or untreated (red) or treated with UV and TPA (green) using Phospho-Histone H2A.X (Ser139) antibody HisH2AXS139-1B3 at 0.05 µg/mL. Cat. #orb1946207.



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 (S139) antibody HisH2AXS139-1B3 (Cat. #orb1946207) or Company C antibody at 0.2 µg/mL (manufacturer's recommended concentration).

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