Anti-pHistone H2A.X [Ser139]-147Sm

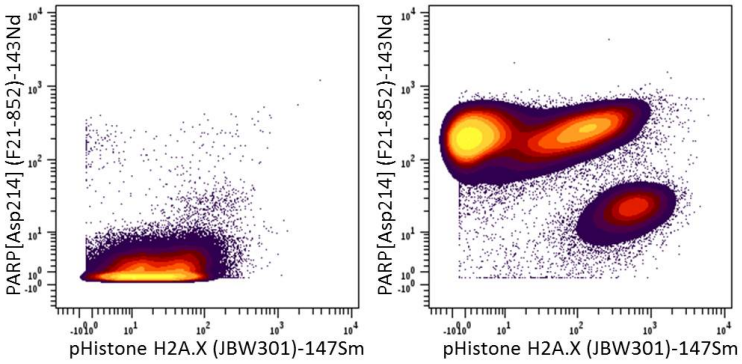
Catalog: 3147016A
Package Size: 50 tests
Storage: Store product at 4°C. Do not freeze.
Reactivity: Human

Clone: JBW301
Isotype: Mouse IgG1
Formulation: Antibody stabilizer with 0.05% Sodium Azide

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF® analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10^6 live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human Jurkat T cells were incubated for 9 hours in media alone (left) or with etoposide (right). Cells were then fixed, permeabilized, and stained with 143Nd-anti-PARP[Asp214] (F21-852) and 147Sm-anti-pHistone H2A.X [Ser139] (JBW301).

Description

H2A.X is a 14 kDa basal histone and a member of the H2 histone family. This nuclear protein is required for checkpoint-mediated cell cycle arrest and DNA repair following double-stranded DNA breaks. DNA damage, resulted from ionizing radiation, UV-light, or radiomimetic agents, leads to rapid phosphorylation of H2A.X at Ser139. Phosphorylated H2A.X promotes DNA repair and maintains genomic stability.

References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. Highly Multiparametric Analysis by Mass Cytometry. *J Immunol Methods* 361 (1-2):1-20, 2010.

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North America +1 650 266 6100 | Toll-free: +1 866 358 4354 in the US | support.northamerica@fluidigm.com **Europe** +33 1 60 92 42 40 | support.europe@fluidigm.com
China (excluding Hong Kong) +86 21 3255 8368 | techsupportchina@fluidigm.com **Japan** +81 3 3662 2150 | techsupportjapan@fluidigm.com
All other Asian countries +1 650 266 6100 | techsupportasia@fluidigm.com **Central and South America** +1 650 266 6100 | techsupportlatam@fluidigm.com

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