

Product Data Sheet

FITC anti-H2A.X-Phosphorylated (Ser139)

| Catalog # / Size: | 613403 / 25 tests 613404 / 100 tests | Г | | | |
|-------------------------|---|-------------|---|--|--|
| Clone: | 2F3 | | | | |
| Isotype: | Mouse IgG1, κ | | li l | | |
| Immunogen: | Modified peptide | đ | Augh. | | |
| Reactivity: | Human | Z | | | |
| Preparation: | The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC. | Relative Ce | 10 ⁰ 10 ¹ 10 ² 10 ³ 10 ⁴ | | |
| Formulation: | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA). | | | | |
| Storage: | The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. Do not freeze. | | | | |
| Application | IS: | | ⁰ 10 ¹ 10 ² 10 ³ 10 ⁴ Log Fluoresence Intensity aurosporine-treated (37oC, 4 | | |
| Applications: | ICFC - Quality tested IF - Reported in the literature | ho no | ours) (filled green histogram) or n-treated Molt-4 cells (opened | | |
| Recommended Usage: | Each lot of this antibody is quality control tested by immunofluorescent intracellular staining with flow cytometric analysis. Test size products are transitioning from 20 µl to 5 µl per test . Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change. | Έľ | purple histogram) stained with 2F3 FITC | | |
| Application Notes: | Intracellular staining protocol for Anti-H2A.X-Phosphorylated (Ser139) Ar | ntibo | ody for Flow Cytometry | | |
| | Prepare 70% absolute ethanol. Chill solution by storing at -20C. Prepare cells of interest. Wash 1X: resuspend with PBS, then pellet cells by centrifugation (250Xg, 5r Discard the supernatant and vortex to loosen cell pellet. Add pre-cooled 70% ethanol drop by drop, while vortexing. Incubate at -20C for 60 minutes. Wash 3X with BioLegend Cell Staining Buffer and resuspend the cells at 0.5 Perform immunofluorescent staining. Additional reported applications (fo include: immunohistochemistry on paraffin embedded sections², immunofluore¹⁰⁻¹², and flow cytometry^{1,13}. | 5-1 X | 10^7/ml in the cell staining buffer. Prelevant formats of this clone) ance microscopy ³⁻⁹ , western blot | | |
| Application References: | Moiseenko V, et al. 2008 Radiat Oncol 3:18 (FC) Akbay A, et al. 2008. Am J Pathol. 173:536. (IHC) PubMed Mochizuki K, et al.2008. J cell Sci.121:2148. (IF) PubMed Xiao R, et al. 2007. Mol Cell Biol.27:5393. (IF) PubMed Rossi DJ, et al. 2007. Nature. 447:725. (IF) PubMed Loidl J, et al. 2009. Mol Cell Biol. 20:2048. (IF) PubMed Beels L, et al. 2009. Circulation. 120:1903. (IF) PubMed | | | | |

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- 8. Suzuki K, et al. 2010. Nucleic Acids Res. 38:e129. (IF) PubMed.
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 Lukaszewicz A. 2010. *Chromasoma* Apr 27. [Epub ahead of print] (IF) PubMed
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- 14. Zhang M., et al. 2011. Cancer Res. 23:7155. PubMed. 15. Smart DJ, et al. 2012. Mutagenesis. 27:359. PubMed.

Description: H2A.X is a 14 kD basal histone and a member of the H2 histone family. This nuclear protein is synthesized in the G1 and S phase of the cell cycle and is known to be important for recombination between immunoglobulin switch regions. H2A.X becomes phosphorylated on serine 139 after double-stranded DNA breaks. Phosphorylated H2A.X promotes DNA repair and maintains genomic stability. The 2F3 monoclonal antibody reacts with phosphorylated human H2A.X (Ser139) and has been shown to be useful for Western blotting and immunofluorescence.

Antigen References: 1. Mannironi C, et al. 1989. Nucleic Acids Res. 17:9113. 2. Celeste A, et al. 2002. Science 296:922.

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| 3. Bassing CH, et al. 2002. Proc. Natl. Acad. Sci. USA 99:8173. |
|---|
| 4. Reina-Šan-Martin B, et al. 2003. J. Exp. Med. 197:1767. |

| Related Products: Product | Clone | Application |
|--|--------|---------------------------|
| FITC Mouse IgG2b, κ Isotype Ctrl Cell Staining Buffer | MPC-11 | FĊ, ICFC FC, ICC, ICFC |



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