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12-4214: Phospho-Histone H2A.X (Ser139) (Clone: 1E4) rabbit mAb FITC conjugate

Clonality :	Monoclonal
Clone Name :	HisH2AXS139-1E4
Application :	FACS
Reactivity :	Human, Mouse
Conjugate :	FITC
Format :	Conjugated
Alternative Name :	H2AFX, H2AX, ?H2AX, gamma-H2AX
Isotype :	Rabbit IgG1k
Immunogen Information :	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 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.

Product Info

Amount :	10 Tests / 100 Tests
Content :	1X PBS, 0.09% NaN3, 0.2% BSA
Storage condition :	Store at 2-8°C. Avoid repeated freeze and thaw cycles.

Application Note

For flow cytometric staining, the suggested use of this reagent is 5 ÃÂµL per million cells or 5 ÃÂµL per 100 ÃÂµL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.

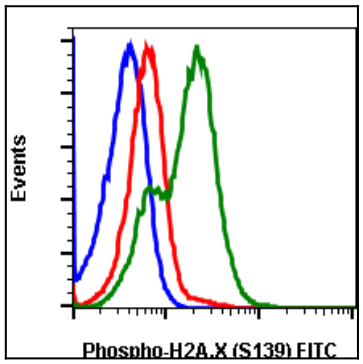

Fig-1: Flow cytometric analysis of 293T cells unstained (blue) stained and untreated (red) or treated with UV and TPA (green) using Phospho-Histone H2A.X (Ser139) antibody HisH2AXS139-1E4 FITC-conjugate.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.