

AlphaLISA® SureFire® Ultra™

Mouse Histone H2A.X Total Detection Kit

Product number: ALSU-TH2X-B500, ALSU-TH2X-B10K,
ALSU-TH2X-B50K, ALSU-TH2X-B-HV



Kit specificity:

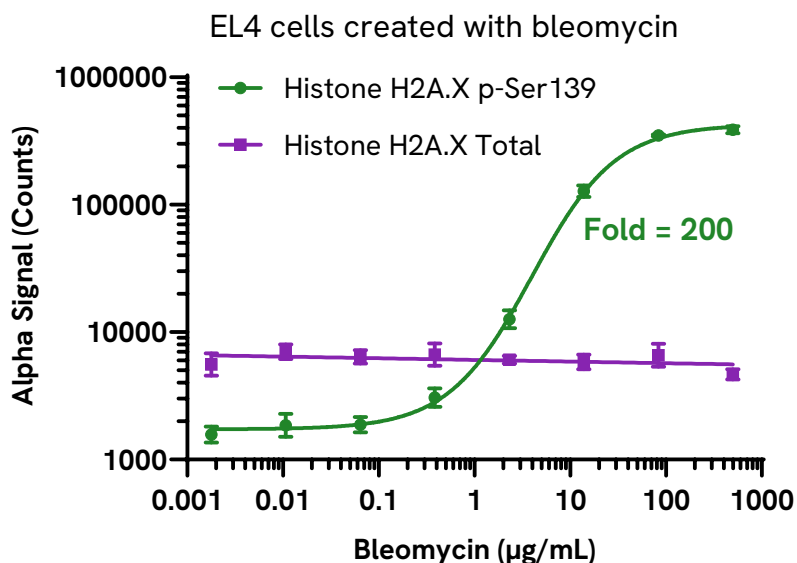
This assay kit contains antibodies which recognize distinct epitopes on Histone H2A.X. The protein detected by this kit corresponds to UniProt ID P27661. Histone H2A.X is also known as H2a/x. These antibodies recognize Histone H2A.X of mouse origin. Other species should be tested on a case-by-case basis.

Control lysate information:

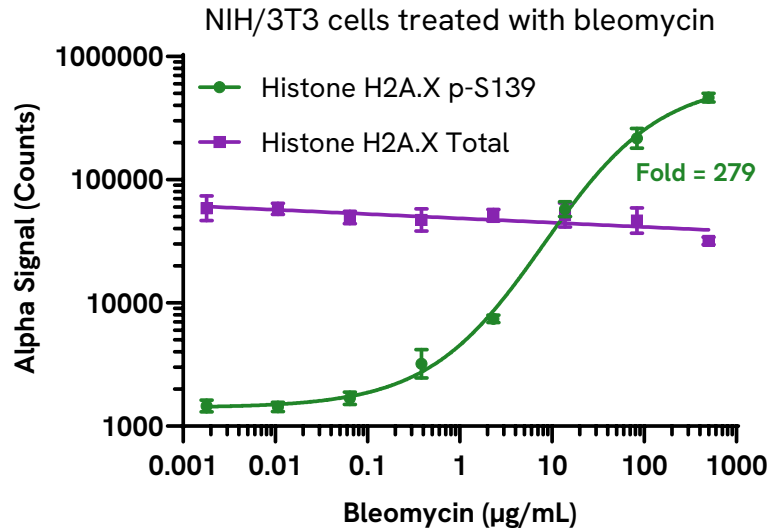
Positive Control Lysate: Prepared from EL4 cells prepared at 0.8×10^6 cells/well in a 96-well plate and treated with 50 $\mu\text{g}/\text{mL}$ bleomycin for 2 hours in complete media. Cells were washed and lysed with 200 μL /well of Lysis Buffer.

Representative data:

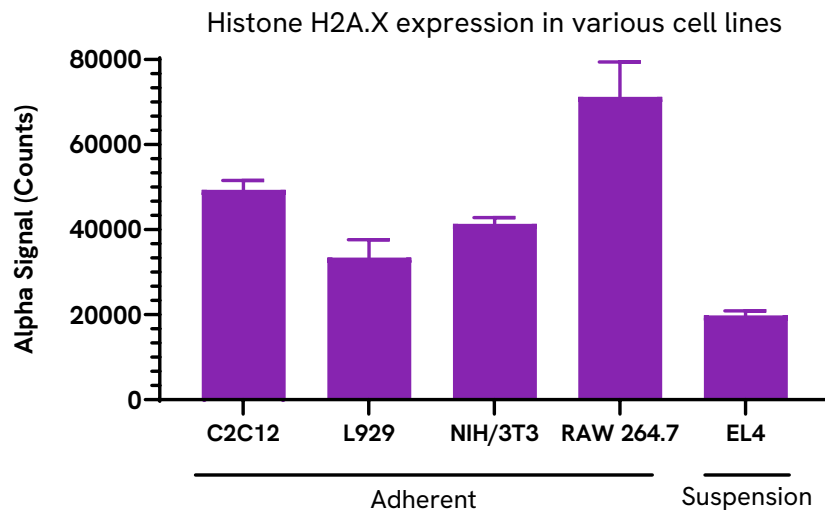
Data obtained with a 2-plate, 2-incubation protocol. EL4 cells were harvested, seeded in a 96-well plate at 50K cells/well and treated with the indicated concentrations of bleomycin for 2 hours. Cells were washed and lysed with Lysis Buffer and assayed separately for Phospho (Ser 139) and Total Histone H2A.X using respective *SureFire Ultra* kits. Equivalent to approximately 2,500 cells/datapoint (Phospho Ser139) or 1,250 cells/datapoint (Total).



Data obtained with a 2-plate, 2-incubation protocol. NIH/3T3 cells were seeded at 40K cells/well in a 96-well plate and incubated overnight. Cells were treated with the indicated concentrations of bleomycin for 2 hours. Cells were lysed with Lysis Buffer, further diluted for Phospho (Ser139) and assayed separately for Phospho (Ser139) and Total Histone H2A.X using respective *SureFire Ultra* kits. Equivalent to approximately 1,000 cells/datapoint (Phospho Ser139) or 4,000 cells/datapoint (Total).



Data obtained from measurement of Histone H2A.X Total in various cell types lysed with Lysis Buffer. Equivalent to approximately 4,000 cells/datapoint for adherent cells or 2,500 cells/datapoint for suspension cells.



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