

AlphaLISA™ SureFire® Biotin Free

Human and Mouse Acetyl Histone H3 (K27) Detection Kit

Product number: ASBF-EHISH3-A500, ASBF-EHISH3-A10K,
ASBF-EHISH3-A50K, ASBF-EHIS3-A-HV



Kit specificity:

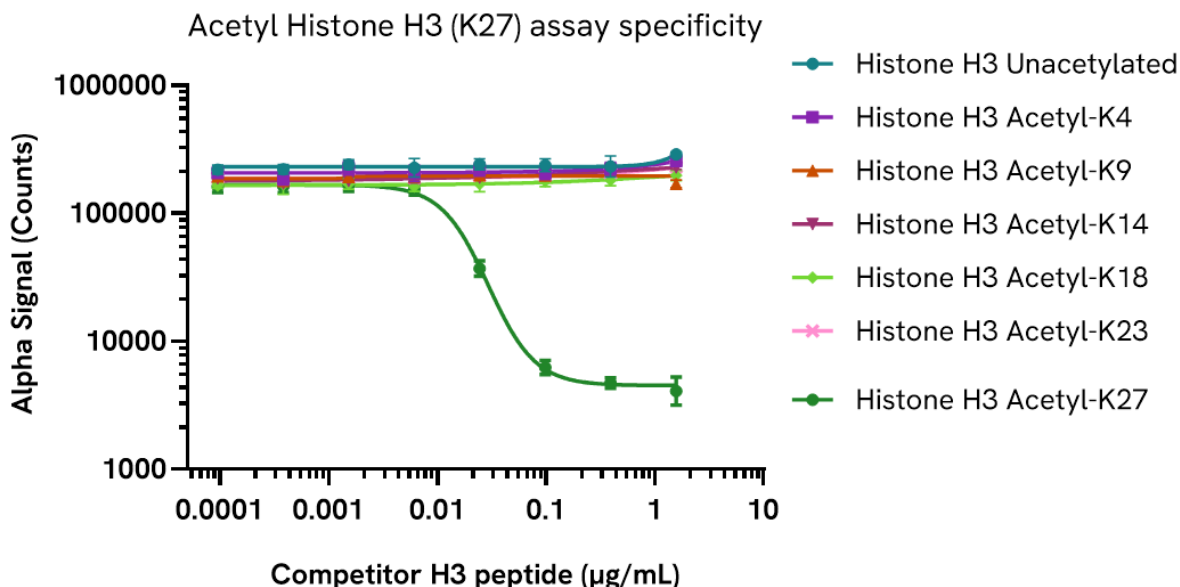
This assay kit contains antibodies which recognize the Acetyl-Lys27 epitope and a distal epitope on Histone H3 protein. The protein detected by this kit corresponds to UniProt ID P68431. Histone H3 is also known as Histone H3.1. These antibodies recognize Acetylated Histone H3 (K27) of human and mouse origin. Other species should be tested on a case-by-case basis.

Control lysate information:

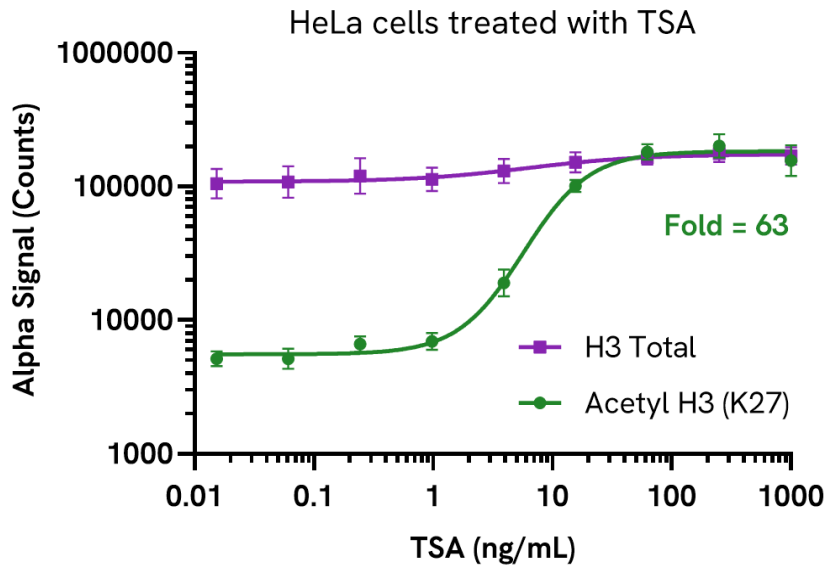
Positive Control Lysate: Prepared from HeLa cells cultured to confluence in T175 flasks in 10% FBS containing medium, then treated with 500 ng/mL Trichostatin A for 4 hours, and lysed with 120 mL of Lysis Buffer B.

Representative data:

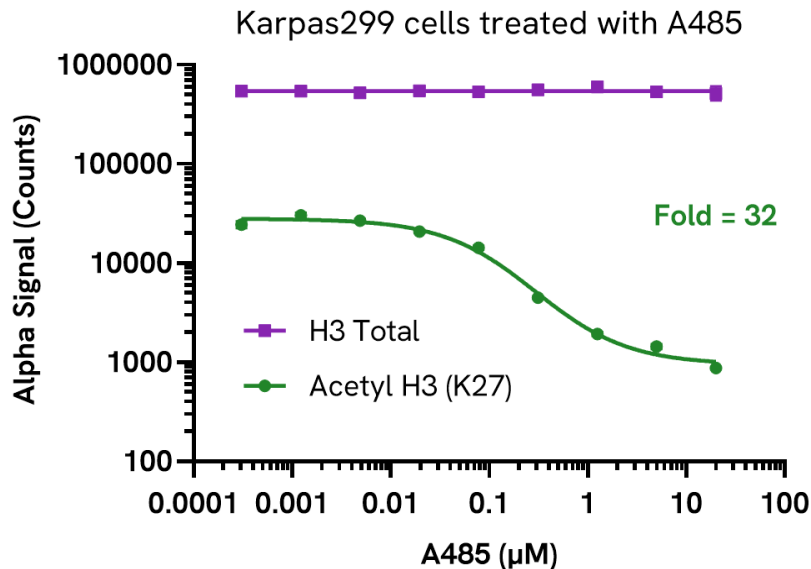
Specificity of the Acetyl Histone H3 (K27) assay was assessed by a peptide competition assay. Acetyl Histone H3 K4, K9, K14, K18, K23, K27 and non-acetyl peptides were serially diluted into a fixed concentration of HeLa positive control lysate. Lysates were then assayed using the Acetyl Histone H3 (K27) SureFire Biotin Free kit.



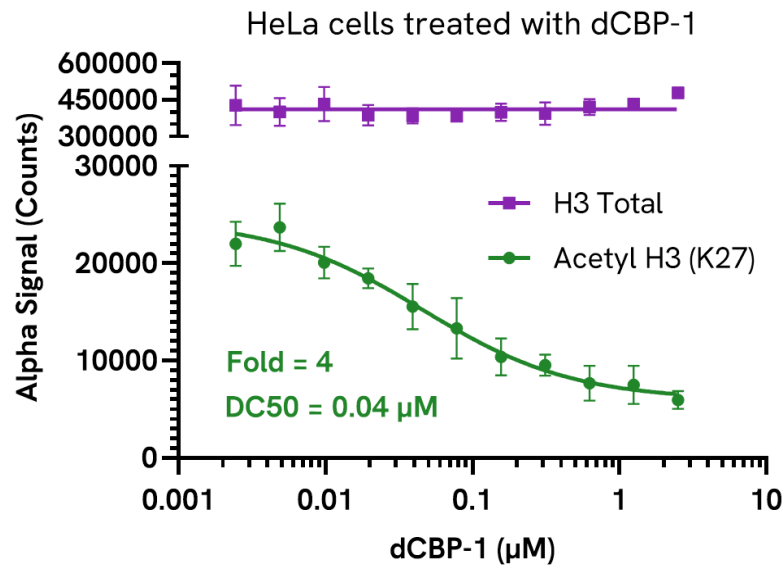
Data obtained with a 2-plate, 2-incubation protocol. HeLa cells were seeded at 100K cells/well in a 96-well plate and treated with increasing concentrations of Trichostatin A (TSA) for 4 hours. Cells were lysed with 200 μ L Lysis Buffer B for 30 minutes with shaking. Lysate was further diluted with Lysis Buffer B and assayed separately for Acetyl Histone H3 (K27) and Histone H3 Total using respective *SureFire* Biotin Free kits. Equivalent to approximately 100 cells/datapoint.



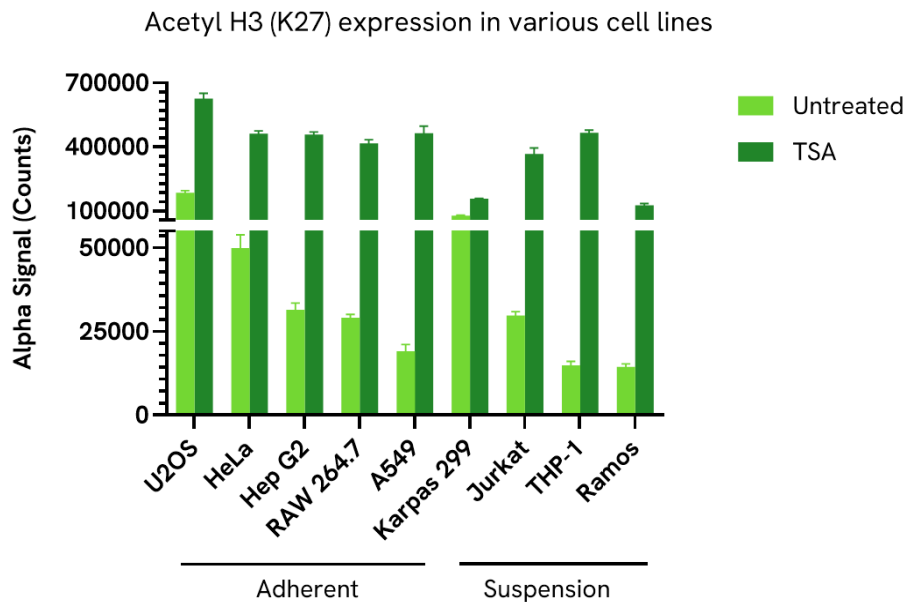
Data obtained with a 2-plate, 2-incubation protocol. Karpas 299 cells were seeded at 400K cells/well in a 96-well plate and treated with increasing concentrations of A485 for 4 hours. Cells were lysed with the addition of 50 μ L of 5X Lysis Buffer Lysis Buffer B for 30 minutes with shaking. Lysate was assayed separately for Acetyl Histone H3 (K27) and Histone H3 Total using respective *SureFire* Biotin Free kits. Equivalent to approximately 16,000 cells/datapoint.



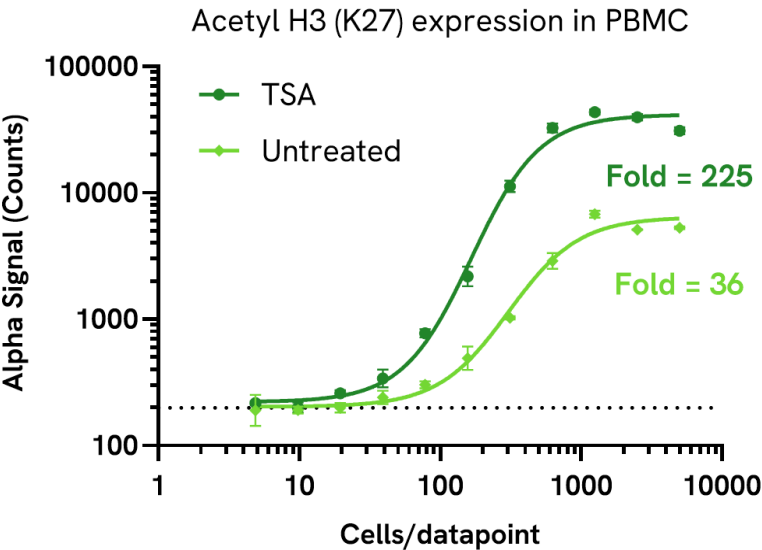
Data obtained with a 2-plate, 2-incubation protocol. HeLa cells were seeded at 40K cells/well in a 96-well plate and treated with increasing concentrations of dCBP-1 for 2 hours. Cells were lysed with 200 μ L of Lysis Buffer Lysis Buffer B for 30 minutes with shaking and assayed separately for Acetyl Histone H3 (K27) and Histone H3 Total using respective *SureFire* Biotin Free kits. Equivalent to approximately 2,000 cells/datapoint.



Data obtained from measurement of Acetyl Histone H3 (K27) in various cell types treated with 500 ng/mL Trichostatin A for 4 hours and lysed with Lysis Buffer B for 30 minutes with shaking. Equivalent to approximately 500 cells/datapoint for adherent cells or 1,000 cells/datapoint for suspension cells.



Data obtained from measurement of Acetyl Histone H3 (K27) in PBMCs untreated or treated with 500 ng/mL Trichostatin A for 4 hours and lysed with Lysis Buffer B for 30 minutes with shaking. Lysate was serially diluted with Lysis Buffer B and assayed using the Acetyl Histone H3 (K27) SureFire Biotin Free kit.



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