AlphaLISA™ *SureFire*® Biotin Free

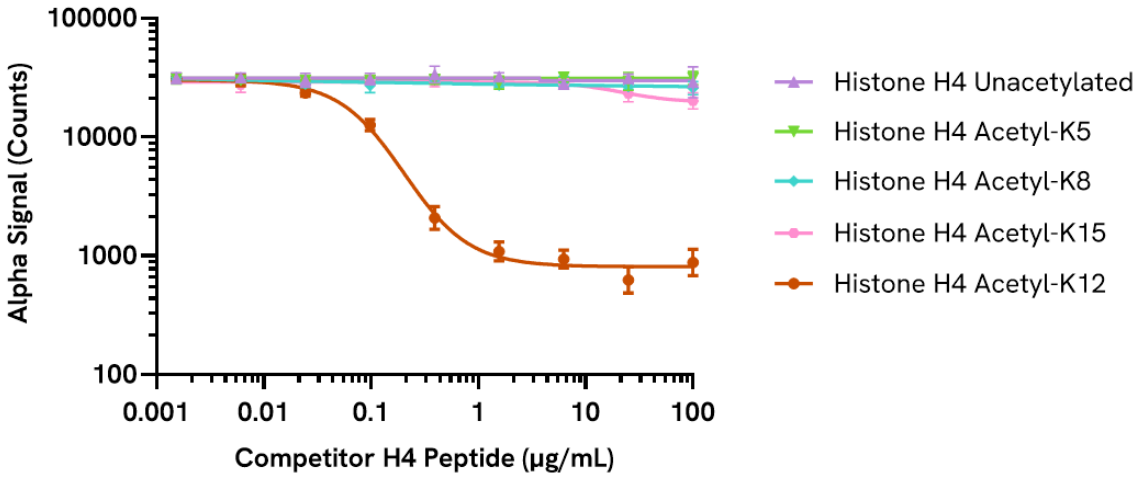
Human and Mouse Acetyl Histone H4 (K12) Detection Kit

Product number: ASBF-EHISH4-A500, ASBF-EHISH4-A10K, ASBF-EHISH4-A50K, ASBF-EHISH4-A-HV

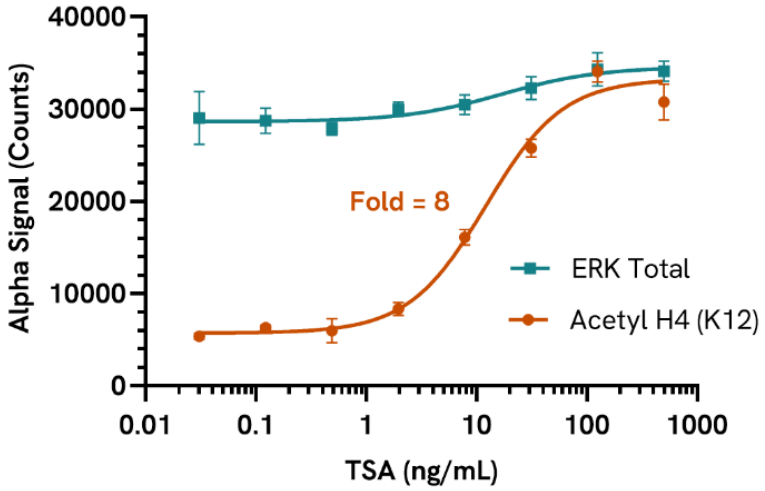
Kit specificity:
This assay kit contains antibodies which recognize the Acetyl-Lys12 epitope and a distal epitope on Histone H4 protein. The protein detected by this kit corresponds to UniProt ID P62805. These antibodies recognize Acetylated Histone H4 (K12) of human and mouse origin. Other species should 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 (TSA) for 4 hours, and lysed with 4 mL of Lysis Buffer B.

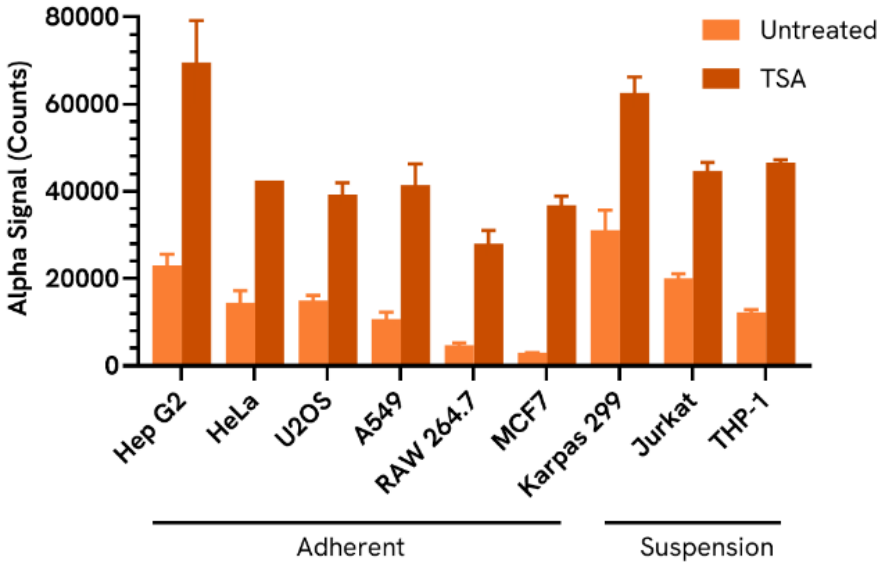
Representative data:
Specificity of the Acetyl Histone H4 (K12) assay was assessed by a peptide competition assay. Acetyl Histone H4 K5, K8, K12, K15 and non-acetyl peptides were serially diluted into a fixed concentration of HeLa positive control lysate. Lysates were then assayed using the Acetyl Histone H4 (K12) *SureFire* Biotin Free kit.



Data obtained with a 2-plate, 2-incubation protocol. HeLa cells were seeded at 200K cells/well in a 96-well plate and treated with increasing concentrations of TSA for 4 hours. Cells were lysed with 200 µL Lysis Buffer B for 30 minutes with shaking. Lysate was assayed separately for Acetyl Histone H4 (K12) and ERK Total using respective *SureFire* Biotin Free kits. Equivalent to approximately 2,000 cells/datapoint.



Data obtained from measurement of Acetyl Histone H4 (K12) in various cell types treated with 500 ng/mL TSA for 4 hours and lysed with Lysis Buffer B for 30 minutes with shaking. Equivalent to approximately 5,000 cells/datapoint for adherent cells or 10,000 cells/datapoint for suspension cells.



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