

Certificate of Analysis

Control Histones (+/- sodium butyrate) (HeLa cell acid extract)

Catalog # 17-305
Lot # 20484

Kit Components

Control Histones, untreated, (HeLa cell acid extract), Catalog # 13-112, Lot # 20402. 10 vials, each vial containing **50mg** of precipitated core histones, lyophilized from sterile water. Lyophilized powder.

Control Histones, sodium butyrate-treated, (HeLa cell acid extract), Catalog # 13-113, Lot # 20403. 10 vials, each vial containing **50mg** of precipitated core histones, lyophilized from sterile water. Lyophilized powder.

**FOR RESEARCH USE ONLY
NOT FOR USE IN HUMANS**

Kit Description

Product Description: Core histones, including histone H1, purified by acid extraction precipitation from log phase of untreated and sodium butyrate-treated HeLa cells.

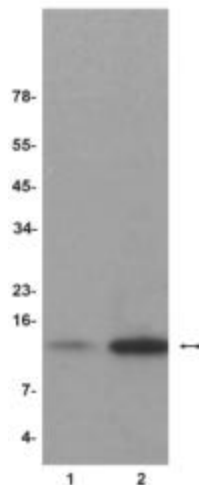
Quantity: 50 assays per kit.

Storage and Stability: Lyophilized: Stable for 2 years at -20°C from date of shipment, when stored with provided desiccant. Reconstituted: Stable for 6 months at -70°C.

Rehydration: Aseptically reconstitute to 1mg/ml with sterile water. Aliquot to avoid repeated freezing and thawing.

Quality Control Testing

Immunoblot Analysis: 10µg of histones from untreated and sodium butyrate-treated HeLa cells were used as a positive control for immunoblot analysis using 2µg/ml anti-acetyl Histone H4 (Catalog # 06-598), 1µg/ml anti-acetyl-Histone H3 (Catalog # 06-599) and 1:3000 dilution of anti-hyperacetylated Histone H4 (Penta) (Catalog # 06-946).



Immunoblot Analysis

10µg Control Histones, untreated (lane1) or sodium butyrate-treated (lane 2), were resolved by electrophoresis, transferred to nitrocellulose and probed with 2µg/ml anti-acetyl-Histone H4 (Catalog # 06-598). Proteins were visualized using a goat anti-rabbit secondary antibody conjugated to HRP and a chemiluminescence detection system. Arrow indicates acetyl Histone H4 (10kDa).

Immunoblot Protocol

1. Perform SDS-polyacrylamide gel electrophoresis (SDS-PAGE) on **10mg Control Histones** and transfer the proteins to nitrocellulose. Wash the blotted nitrocellulose twice with water.
2. Block the blotted nitrocellulose in freshly prepared TBS containing 3% nonfat dry milk (Catalog # 20-200), (TBS-MLK) for 60 minutes at 20-25°C with constant agitation.
3. Incubate the nitrocellulose with an appropriate Histone-specific antibody, diluted in freshly prepared TBS-MLK overnight with agitation at 4°C.
4. Wash the nitrocellulose twice with water.
5. Incubate the nitrocellulose with the appropriate secondary reagent in TBS-MLK for 1.5 hours at room temperature with agitation.
6. Wash the nitrocellulose with water twice.
7. Wash the nitrocellulose in TBS-0.05% Tween 20 for 3-5 minutes.
8. Rinse the nitrocellulose in 4-5 changes of water.
9. Use detection method of choice (enhanced chemiluminescence was used).