Histone H4 Acetylation Assay Kit

Cat. No. Kit-0459 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Histone H4 Acetylation Assay Kit is use for measuring acetylation of histone H4.
Description	Acetylation of histones including histone H4 has been involved in the regulation of chromatin structure and the recruitment of transcription factors to gene promoters. Histone acetyltransferases (HATs) and histone deacetylases (HDACs) play critical roles in controlling histone acetylation. Histone acetylation is tightly involved in cell cycle regulation, cell proliferation, and apoptosis. Reversible acetylation of nucleosomal histones H4 generally is believed to be correlated with potential transcriptional activity of eukaryotic chromatin domains. Histone H4 acetylation may be increased by inhibition of HDACs and decreased by HAT inhibition. There are very few methods used for measuring histone H4 acetylation. The Histone H4 Acetylation Assay Kit addresses this problem by providing a unique procedure to measure acetylation of histone H4.
Applications	The Histone H4 Acetylation Assay Kit is suitable for specifically measuring histone H4 acetylation using a variety of mammalian cells including fresh and frozen tissues, and cultured adherent and suspension cells.
Usage	For research use only (RUO)
Storage	Upon receipt:Store GE8 and acetylated histone H4 Control at –20°C away from light.Store GE3, GE5, GE6, GE7, GE9 and 8-well Assay Strips at 4°C away from light.Store all other components at room temperature. The components of the kit should be stable for 6 months when stored properly.Note: Chek if wash buffer, GE3,

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	contains salt precipitates before using. If so, warm (at room temperature or 37°C) and shake the buffer until the salts are re-dissolved.
Kit Components	GE1 (10X Lysis Buffer) 10 mlGE2 (Extraction Buffer) 16 mlGE3 (10X Wash Buffer) 28 mlGE4 (Histone Buffer) 1 mlGE5 (Blocking Buffer) 20 mlGE6 (Antibody Buffer) 12 mlGE7 (Capture Antibody, 100 µg/ml)* 50 µlGE8 (Detection Antibody, 400 µg/ml)* 20 µlGE9 (Developing Solution) 10 mlGE10 (Stop Solution) 6 mlAcetylated Histone H4 Control (60 µg/ml)* 20 µl8-well Assay Strip (with Frame) 12 strips* For maximum recovery of the products, centrifuge the original vial after thawing prior to opening the cap.
Features & Benefits	Quick and efficient, can be finished within 5 hours.Innovative colorimetric assay with no need for radioactivity, electrophoresis, or chromatography.Strip microplate format makes the assay flexible: manual or high throughput.Simple, reliable, and consistent assay conditions.

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