EPIGENTEK
Complete Solutions for Epigenetics

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Complete Solutions for

Histone Methylation Quantification

Histone H3 & H4 Multiplex Assays

*Screen and measure up to 21 different histone **H3** or 10 different histone **H4** modification patterns in a single ELISA-like kit.*



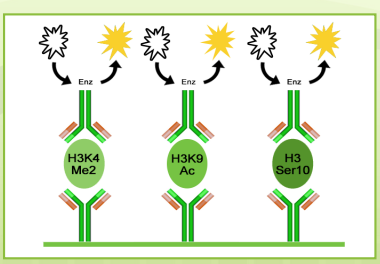
Plate layout of histone H3 modifications with the kit (also available for H4):

	1	2	3	4	5	6	7	8	9	10	11	12
A	Assay control 5 ng	Blank	H3K4me2	H3K9me1	H3K9me3	H3K27me2	H3K36me1	H3K36me3	H3K79me2	H3K9ac	H3K18ac	H3ser10P
B	Assay control 5 ng	Blank	H3K4me2	H3K9me1	H3K9me3	H3K27me2	H3K36me1	H3K36me3	H3K79me2	H3K9ac	H3K18ac	H3ser10P
C	Assay control 25 ng	Blank	H3K4me2	H3K9me1	H3K9me3	H3K27me2	H3K36me1	H3K36me3	H3K79me2	H3K9ac	H3K18ac	H3ser10P
D	Assay control 25 ng	Blank	H3K4me2	H3K9me1	H3K9me3	H3K27me2	H3K36me1	H3K36me3	H3K79me2	H3K9ac	H3K18ac	H3ser10P
E	Total H3	H3K4me1	H3K4me3	H3K9me2	H3K27me1	H3K27me3	H3K36me2	H3K79me1	H3K79me3	H3K14ac	H3K56ac	H3ser28P
F	Total H3	H3K4me1	H3K4me3	H3K9me2	H3K27me1	H3K27me3	H3K36me2	H3K79me1	H3K79me3	H3K14ac	H3K56ac	H3ser28P
G	Total H3	H3K4me1	H3K4me3	H3K9me2	H3K27me1	H3K27me3	H3K36me2	H3K79me1	H3K79me3	H3K14ac	H3K56ac	H3ser28P
H	Total H3	H3K4me1	H3K4me3	H3K9me2	H3K27me1	H3K27me3	H3K36me2	H3K79me1	H3K79me3	H3K14ac	H3K56ac	H3ser28P

EpiQuik™ Histone H3 Modification Multiplex Assay Kit
Simultaneously screen and measure 21 different, well-characterized histone H3 modifications in only 2.5 hours.

EpiQuik™ Histone H4 Modification Multiplex Assay Kit
In a simple 2.5 hour procedure, detect and quantify nearly all histone H4 modifications (10 different types) simultaneously.

EpiQuik™ Circulating Modified Histone H3 Multiplex Assay Kit
Simultaneously detect and quantify up to 22 different, well-characterized modified histone H3 patterns directly from plasma or serum in only 2.5 hours.



◀ Working principle of the EpiQuik™ Histone H3 Modification Multiplex Assay Kit. (Cat. #P-3100)

- **Speed:** Finish the entire procedure in 2 hours and 30 minutes.
- **Convenience:** Colorimetric assay without the need for radioactivity, electrophoresis, chromatography, or expensive equipment. Plus, the control is included to quantify each histone modification.
- **Sensitivity:** High sensitivity with a detection limit as low as 0.5 ng/well for each modification pattern and a detection range from 20 ng to 500 ng/well of histone extracts.
- **Flexibility:** Strip-well microplate format allows either manual or high throughput assays. Single or multiple modification patterns can be analyzed within the same samples.
- **Sample amount pre-optimization:** Two extra 8-well strips are included which can be used to determine the input amount needed to fall within the detection limits of the assay.
- **Included controls:** Total histone sets are included, which can be used for normalizing total histone levels for relative comparison of histone content between different samples or different treatment conditions.
- **Reliability:** Consistent assay conditions and superior results.

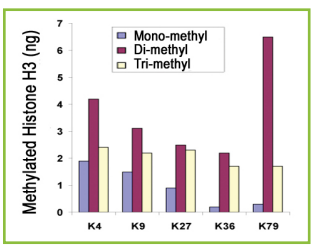
Product Name	Detection Type	Cat. No.
EpiQuik Histone H3 Modification Multiplex Assay Kit	Colorimetric	P-3100
EpiQuik Histone H4 Modification Multiplex Assay Kit	Colorimetric	P-3102
EpiQuik Circulating Modified Histone H3 Multiplex Assay Kit	Colorimetric	P-3106

Learn more online at:
www.epigentek.com/histone-modifications

Histone H3 & H4 Methylation Quantification

EpigenTek offers a complete series of ELISA-like kits, in both colorimetric and fluorometric versions, for the quantification of H3 or H4 methylation at specific lysines.

- Fast and easy 2.5 hour procedure.
- The control is conveniently included.
- No need for radioactivity, electrophoresis, or chromatography.
- Detection limit as low as 1 to 5 ng/well colorimetrically and 0.2 to 1 ng/well fluorometrically.
- Detection range, depending on the histone target and detection type, from 5 ng to 5 µg/well of histone extracts.
- Flexible strip-well microplate format for manual or high throughput.
- Simple, reliable, and consistent assay conditions.



Histone H3 mono-, di-, and tri-methylation at different sites was quantified with the EpiQuik™ Histone H3 Methylation Quantification Kit series (Fluorometric).

Histone	Methyl Group	Detection Type	Cat. No.
H3K4	Mono-Methyl	Colorimetric	P-3024
H3K4	Mono-Methyl	Fluorometric	P-3025
H3K4	Di-Methyl	Colorimetric	P-3022
H3K4	Di-Methyl	Fluorometric	P-3023
H3K4	Tri-Methyl	Colorimetric	P-3026
H3K4	Tri-Methyl	Fluorometric	P-3027
H3K4	Pan-Methyl	Colorimetric	P-3028
H3K4	Pan-Methyl	Fluorometric	P-3029
H3K9	Mono-Methyl	Colorimetric	P-3030
H3K9	Mono-Methyl	Fluorometric	P-3031
H3K9	Di-Methyl	Colorimetric	P-3032
H3K9	Di-Methyl	Fluorometric	P-3033
H3K9	Tri-Methyl	Colorimetric	P-3034
H3K9	Tri-Methyl	Fluorometric	P-3035
H3K9	Pan-Methyl	Colorimetric	P-3036
H3K9	Pan-Methyl	Fluorometric	P-3037
H3K27	Mono-Methyl	Colorimetric	P-3038
H3K27	Mono-Methyl	Fluorometric	P-3039
H3K27	Di-Methyl	Colorimetric	P-3040
H3K27	Di-Methyl	Fluorometric	P-3041
H3K27	Tri-Methyl	Colorimetric	P-3042
H3K27	Tri-Methyl	Fluorometric	P-3043
H3K27	Pan-Methyl	Colorimetric	P-3044
H3K27	Pan-Methyl	Fluorometric	P-3045
H3K36	Mono-Methyl	Colorimetric	P-3046

Histone	Methyl Group	Detection Type	Cat. No.
H3K36	Mono-Methyl	Fluorometric	P-3047
H3K36	Di-Methyl	Colorimetric	P-3048
H3K36	Di-Methyl	Fluorometric	P-3049
H3K36	Tri-Methyl	Colorimetric	P-3050
H3K36	Tri-Methyl	Fluorometric	P-3051
H3K36	Pan-Methyl	Colorimetric	P-3052
H3K36	Pan-Methyl	Fluorometric	P-3053
H3K79	Mono-Methyl	Colorimetric	P-3054
H3K79	Mono-Methyl	Fluorometric	P-3055
H3K79	Di-Methyl	Colorimetric	P-3056
H3K79	Di-Methyl	Fluorometric	P-3057
H3K79	Tri-Methyl	Colorimetric	P-3058
H3K79	Tri-Methyl	Fluorometric	P-3059
H3K79	Pan-Methyl	Colorimetric	P-3060
H3K79	Pan-Methyl	Fluorometric	P-3061
H4K20	Mono-Methyl	Colorimetric	P-3064
H4K20	Mono-Methyl	Fluorometric	P-3065
H4K20	Di-Methyl	Colorimetric	P-3066
H4K20	Di-Methyl	Fluorometric	P-3067
H4K20	Tri-Methyl	Colorimetric	P-3068
H4K20	Tri-Methyl	Fluorometric	P-3069
H4K20	Pan-Methyl	Colorimetric	P-3070
H4K20	Pan-Methyl	Fluorometric	P-3071

**Also available are kits for the measurement of total histone H3 (Cat. #P-3062) and total histone H4 (Cat. #P-3072)*

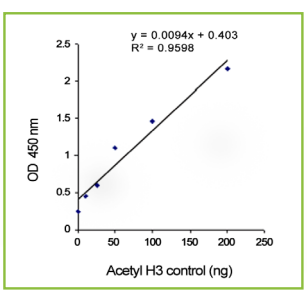
Histone H3 & H4 Acetylation Quantification

Histone acetylation, including histone H3 and histone H4, is involved in the regulation of chromatin structure and the recruitment of transcription factors to gene promoters. Quantifying total levels of acetylated histone or levels at specific lysines will help to elucidate epigenetic regulation of gene activation, and contribute to the development of HAT or HDAC-targeted drugs.

EpigenTek offers a complete series of ELISA-like kits, in both colorimetric and fluorometric versions, for the quantification of H3 or H4 acetylation at specific lysines.

- Fast and easy 2.5 hour procedure.
- The control is conveniently included.
- No need for radioactivity, electrophoresis, or chromatography.
- Detection limit as low as 2 ng/well colorimetrically and 0.4 ng/well fluorometrically.
- Detection range, depending on the histone target and detection type, from 5 ng to 5 µg/well of histone extracts.
- Flexible strip-well microplate format for manual or high throughput.
- Simple, reliable, and consistent assay conditions.

**Also available are kits for the measurement of global acetylation of histone H3 (Cat. #P-4008) and global acetylation of histone H4 (Cat. #P-4009)*



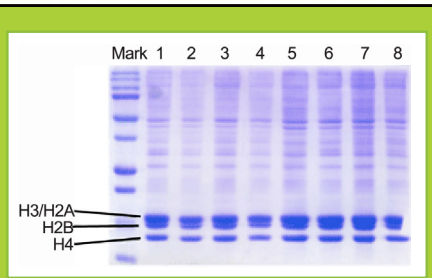
Acetylated histone H3 control was bound to microplate wells at different concentrations and measured using the EpiQuik™ Global Histone H3 Acetylation Assay Kit (Cat. #P-4008).

Histone	Detection Type	Cat. No.
H3K9	Colorimetric	P-4010
H3K9	Fluorometric	P-4011
H3K14	Colorimetric	P-4012
H3K14	Fluorometric	P-4013
H3K18	Colorimetric	P-4014
H3K18	Fluorometric	P-4015
H3K23	Colorimetric	P-4016
H3K23	Fluorometric	P-4017
H3K27	Colorimetric	P-4059
H3K36	Colorimetric	P-4018
H3K36	Fluorometric	P-4019
H3K56	Colorimetric	P-4020
H3K56	Fluorometric	P-4021
H4K5	Colorimetric	P-4022
H4K5	Fluorometric	P-4023
H4K8	Colorimetric	P-4024
H4K8	Fluorometric	P-4025
H4K12	Colorimetric	P-4028
H4K12	Fluorometric	P-4029
H4K16	Colorimetric	P-4026
H4K16	Fluorometric	P-4027

The EpiQuik™ Total Histone Extraction Kit

(Cat. # OP-0006)

Extract total core histone proteins (H2A, H2B, H3, and H4) from mammalian cells or tissues in 60 minutes. The extracts can be used in EpigenTek's histone modification assay kits or in a variety of downstream applications for histone acetylation, methylation, phosphorylation, and sumoylation.



SDS-PAGE analysis of histone extracts was prepared with the EpiQuik™ Total Histone Extraction Kit (Cat. #OP-0006). 10 µg of each sample were loaded per lane (1-8).

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