

Product datasheet

EpiSeeker ChIP Kit - Histone H3 (acetyl) ab117148

[1 Image](#)

Overview

Product name	EpiSeeker ChIP Kit - Histone H3 (acetyl)
Sample type	Adherent cells, Suspension cells
Assay time	5h 00m
Species reactivity	Reacts with: Mouse, Human, Mammals
Product overview	

Acetylation of histones such histone H3 has been involved in the regulation of chromatin structure and the recruitment of transcription factors to gene promoters. HATs (histone acetyltransferases) and HDACs (histone deacetylases) play a critical role in controlling *histone H3 acetylation*. Histone acetylation is tightly involved in cell cycle regulation, cell proliferation and apoptosis. An imbalance in the equilibrium of histone acetylation has been associated with tumorigenesis and cancer progression.

EpiSeeker ChIP Kit - Histone H3 (acetyl) (ab117148) enables the user to investigate *in vivo* H3 (acetyl)-DNA interactions within 5 hours. The kit is suitable for combining the specificity of immunoprecipitation with qualitative and quantitative PCR, MS-PCR, DNA sequencing, and southern blot, as well as DNA microarray.

If you are using tissue as your starting sample material, we recommend the use of [EpiSeeker ChIP Kit - Histone H3 \(acetyl\) - Tissue \(ab117150\)](#)

Notes Store Protease Inhibitor Cocktail, Normal Mouse IgG, Anti-Acetyl-Histone H3, Proteinase K and 8-Well Assay Strips at 4°C.

Store all other components at room temperature.

The kit is stable for up to 6 months from the shipment date, when stored properly.

Tested applications **Suitable for:** ChIP

Properties

Storage instructions Please refer to protocols.

Components	24 tests	48 tests
100X Protease Inhibitor Cocktail	1 x 25µl	1 x 40µl
8-Well Assay Strips (with Frame)	3 units	6 units

Components	24 tests	48 tests
8-Well Strip Caps	3 units	6 units
Anti-Acetyl-Histone H3 (1 mg/ml)	1 x 25µl	1 x 50µl
ECA1 (Wash Buffer)	1 x 28ml	2 x 28ml
ECA2 (Antibody Buffer)	1 x 15ml	1 x 30ml
ECA3A (Pre-Lysis Buffer)	1 x 4ml	1 x 8ml
ECA3B (Lysis Buffer)	1 x 2ml	2 x 2ml
ECA4 (ChIP Dilution Buffer)	1 x 2ml	2 x 2ml
ECA5 (DNA Release Buffer)	1 x 1ml	1 x 2ml
ECA6 (Reverse Buffer)	1 x 1ml	1 x 2ml
ECA7 (Binding Buffer)	1 x 5ml	1 x 8ml
ECA8 (Elution Buffer)	1 x 0.6ml	1 x 1.2ml
F-Collection Tube	30 units	50 units
F-Spin Column	30 units	50 units
Normal Mouse IgG (1 mg/ml)	1 x 10µl	1 x 20µl
Proteinase K (10 mg/mL)	1 x 25µl	1 x 50µl

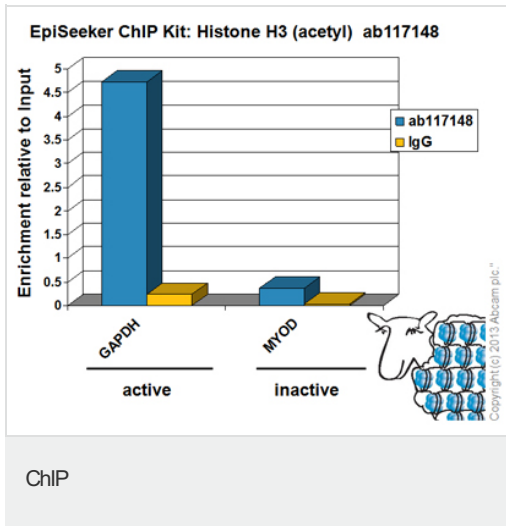
Applications

Our [Abpromise guarantee](#) covers the use of **ab117148** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ChIP		Use at an assay dependent concentration.

Images



Chromatin was prepared from HeLa cells according to the EpiSeeker ChIP Kit protocol. Cells were fixed with formaldehyde for 10 minutes. The ChIP was performed with 100ml of chromatin (diluted at a 1:1 ratio with ECA4) and 2mg of ab117148 (blue). 2µg of normal Mouse IgG antibody was added as the negative control (yellow). The immunoprecipitated DNA was quantified by real time PCR (Taqman approach). Primers and probes are located in the first kb of the transcribed region.

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