

Magna ChIP™ HT96 Kits for high throughput chromatin immunoprecipitation.

Less antibody. Less chromatin. More data.

ChIP up to 96 samples in a single experiment. The Magna ChIP™ HT96 system is a simple, effective, 96-well plate-based method for ChIP using as few as 10,000 cells per well. With a streamlined protocol and a proprietary buffer system, the Magna ChIP™ HT96 kit provides excellent sensitivity and lower backgrounds compared to conventional approaches.

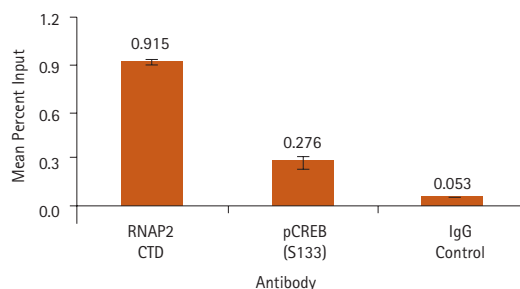


Figure 1.
Reliable performance and low backgrounds using 10,000 cells

Features and Advantages

- Complete set of materials for up to 96 ChIP reactions in a single plate
- Low chromatin requirements: 10,000 to 100,000 cells per reaction
- Magnetic protein A/G bead blend allows the use of a greater variety of antibody subtypes than A or G alone
- Optimized, streamlined protocol allows use of single buffer for sonication, IP, and wash
- Directly analyze resulting DNA without additional clean-up steps
- High fold enrichment using multichannel pipettes or standard automated liquid handling systems
- Protocols for ChIP using cells or tissue
- Available with or without control antibodies and qPCR analysis primers

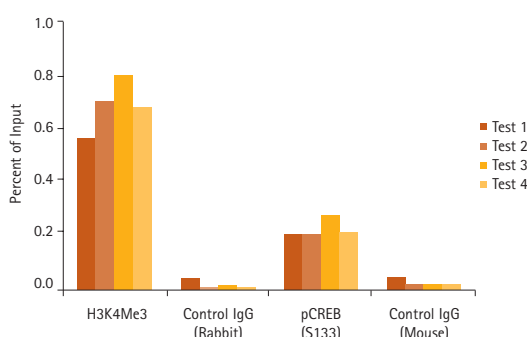
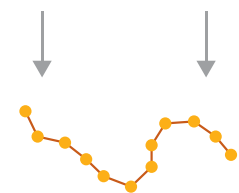


Figure 2.
Highly reproducible, automated ChIP using a liquid handler

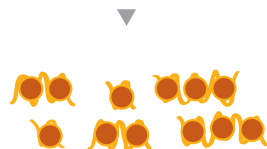
Sonicated chromatin prepared from (A) 10,000 or (B) 100,000 HeLa cells was subjected to chromatin immunoprecipitation using 1 µg of purified mouse IgG (Cat. No. 12-371B) rabbit IgG (Cat. No. 12-370) and specific antibodies (RNA Pol II, Cat. No. 17-620; Phospho-CREB, Cat. No. 17-10131; H3K4Me3, Cat. No. 17-614) and the Magna ChIP™ HT96 Kit. The immunoprecipitations shown in (B) were conducted using a Freedom EVO® robotic workstation. Immunoprecipitation of antibody-associated DNA fragments was verified by qPCR using control primers flanking the human GAPDH promoter region. Error bars in (A) represent standard deviation of qPCR triplicates.

Cells Tissues

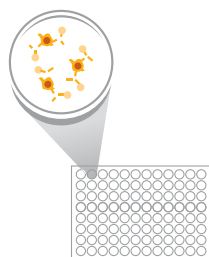


In vivo cross-linking
Lysis

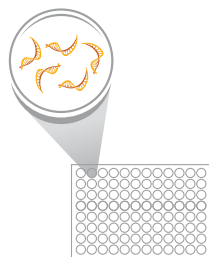
Isolation of chromatin
cultured cells or tissues



Sonication to shear
chromatin

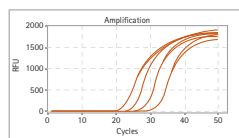


96-well plate
immunoprecipitation
• 10,000–100,000 cells
per reaction
• Manual or automated
processing



Reversal of cross-links

DNA purification (optional)



Detection
• Quantitative PCR
• Promoter microarray
• Sequencing

Effective ChIP from cells or tissues using either
multichannel pipettes or automated liquid handling
instruments.



www.merckmillipore.com/offices

Ordering Information

Description	Catalogue No.
Magna ChIP™ HT96 Kit Buffers, reagents, protein A/G beads, 96-well plates	17-10077
EZ-Magna ChIP™ HT96 Kit Buffers, reagents, protein A/G beads, 96-well plates, control antibodies, analysis primers	17-10078

Visit www.millipore.com/epigenetics to see a complete list of
ChIP validated antibodies and additional technologies to support
your epigenetics research

To Place an Order or Receive Technical Assistance

In Europe, please call Customer Service:

France: 0825 045 645

Germany: 01805 045 645

Italy: 848 845 645

Spain: 901 516 645 Option 1

Switzerland: 0848 645 645

United Kingdom: 0870 900 4645

For other countries across Europe,
please call: +44 (0) 115 943 0840

Or visit: www.merckmillipore.com/offices

For Technical Service visit:

www.merckmillipore.com/techservice

Get Connected!

Join Merck Millipore Bioscience on your favorite social
media outlet for the latest updates, news, products,
innovations, and contests!



facebook.com/MerckMilliporeBioscience



twitter.com/Merck4Bio