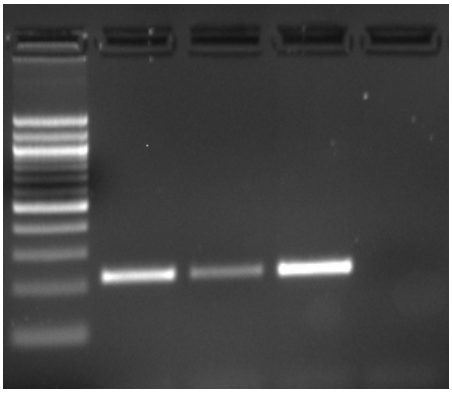
ChIP-IT® Control Kit – Rat

Catalog No: 53012

Format: 5 rxns

Quality Control: ChIP-IT Control Kit – Rat is quality control tested in combination with Active Motif's ChIP-IT® Express Kit (Catalog No. 53008).

Rat Nb2 cells were grown, fixed and used to prepare chromatin as described in the ChIP-IT Express manual. ChIP reactions were then performed using 2 µg RNA pol II antibody plus 2 µg bridging antibody or 2 µg negative control IgG. The immunoprecipitated DNA and the control Input DNA were then used in endpoint PCR using the Beta-actin control primers (Figure 1). The reactions were cycled for 30 repetitions. The positive control primers generate a 223 bp product which should be enriched in the RNA pol II and Input samples. Signal in the Negative IgG samples represents non-specific background.



Lane Template Primers
1 DNA Ladder --
2 RNA pol II Beta-actin
3 Negative IgG Beta-actin
4 Input DNA Beta-actin
5 H_2O control Beta-actin

Kit Components:
50 µl RNA pol II mouse monoclonal antibody (0.2 µg/µl) (also sold as Cat. No. 39097)
50 µl Bridging antibody (1 µg/µl) (also sold as Cat. No. 53017)
50 µl Negative control mouse IgG (0.2 µg/µl)
400 µl Beta-actin primer mix (2.5 µM)
1.5 ml 10X PCR buffer
1.5 ml 10X PCR loading dye

Endpoint PCR Analysis
We recommend the following PCR conditions:
9.8 µl DEPC H_2O
2.5 µl 10X PCR Buffer
2.5 µl 10X PCR Loading Dye
1.0 µl dNTPs (5 mM mix)
0.2 µl Taq polymerase
4.0 µl Beta-actin primer mix
5.0 µl ChIP DNA
25 µl Total Volume

Reactions were cycled 30 times with the following steps per cycle:
94°C denaturing for 20 seconds
59°C annealing for 30 seconds
72°C extension for 30 seconds

Storage and Guarantee: The ChIP-IT Control Kit – Rat components are shipped on dry ice. The negative control IgG antibody should be stored at 4°C, all other components can be stored at -20°C.

This product is guaranteed for 6 months from date of receipt under the correct storage conditions. Aliquot the antibodies to avoid exposing to multiple freeze-thaw cycles.