

Diagenode sa
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Product name:
antibody directed against TBP
(TATA box binding protein)

Catalog #: MAb-TBPCSH-100 (also MAb-002-100)	Type: Monoclonal ChIP grade Isotype: IgG1	Size: 100 µg/12.5 µl
Lot #: DA-0010	Source: Mouse	Concentration: 8 µg/µl

Description: This antibody has been raised against the amino-terminal domain of human TBP.

Specificity: Human: positive
 Other species: not tested

Applications	Suggested dilution	References
ELISA	Not tested	
Western blotting	Tested	[1]
Gel Supershift	Not tested	
Immunohistochemistry	Not tested	
Flow cytometry	Not tested	
Immunoprecipitation	Not tested	
ChIP	0.5 µl per IP	Fig1; [2,3]

Format: In solution in PBS, including 0.05% azide. The monoclonal antibody has been purified as follows: serum proteins were removed by caprylic acid precipitation. The antibodies were precipitated with NH₄SO₄ and then dissolved in PBS. After that an overnight dialysis was done in PBS.

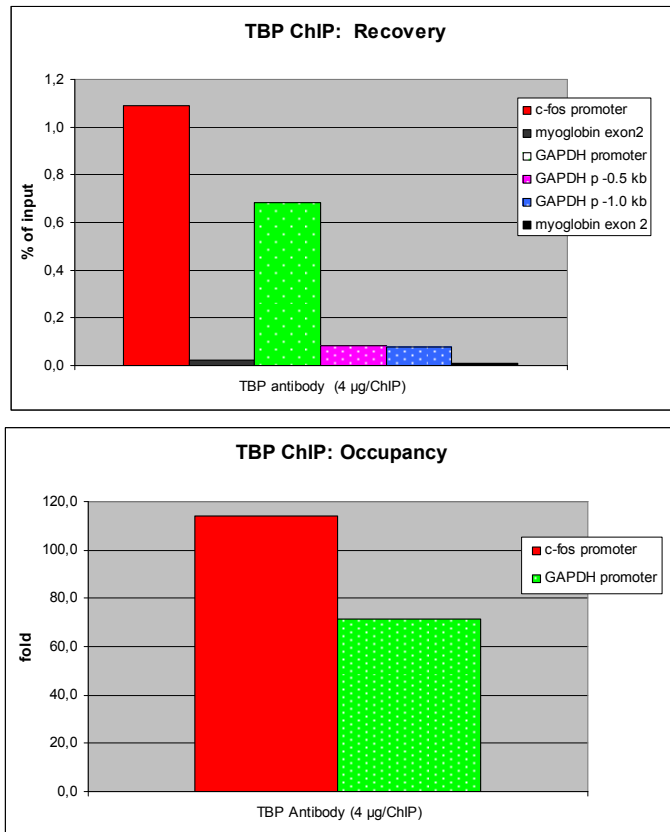
Storage: For long storage, store at -20°C/-80°C. Avoid multiple freeze-thaw cycles.

Precautions: This product is for research use only. Not for use in diagnostic or therapeutic procedures.

References

- [1] Ruppert S.M., McCulloch V., Meyer M., Bautista C., Falkowski M., Stunnenberg H.G. and Hernandez N. 1996. *Hybridoma* 15(1):55-68.
 [2] Raha T., Cheng S.W.G. and Green M.R. 2005. *PLoS Biol.* 3(2): e44.
 [3] Denissov S., van Driel M., Voit R., Hekkelman M., Hulsen T., Hernandez N., Grummt I., Wehrens R. and Stunnenberg H. 2007 *EMBO J.* 26(4):944-54.

Figure 1



ChIP results obtained with the Diagenode TBP antibody.

ChIP assays were performed using U2OS cells, the Diagenode antibody directed against TBP and optimized PCR primer sets (c-fos promoter: cat# pp-1004-050; myoglobin exon 2: cat# pp-1006-050; GAPDH promoter: cat# pp-1001-050; GAPDH promoter, -0.5 kb: cat# pp-1002-050; GAPDH promoter, 1.0 kb: cat# pp-1003-050) for qPCR. Chromatin sheared from 1x 10⁶ cells and 4 µg of antibody anti TBP were used per ChIP experiment. Recovery (% ChIP/input) is shown in the top graph. Occupancy (fold: +ve/-ve) is in the bottom graph.

In red: Recovery and occupancy of the c-fos promoter by TBP.

In green: Recovery and occupancy of the GAPDH promoter by TBP.

Occupancy of the two promoters by TBP is evident based on fluorescent qPCR analysis of immunoprecipitated DNA. Controls for IP and PCR specificity include primers for the myoglobin exon 2 (black) as well as GAPDH -0.5 kb (pink) and GAPDH -1kb (blue).