TATA-Binding Protein (TBP) Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 70102 (clone 1TBP18).
Size: 200ug Protein G-purified antibody in PBS, pH 7.4.

BACKGROUND

The TATA-binding protein (TBP) plays a central role in the assembly of most eukaryotic transcription initiation complexes. TBP assembles with other proteins to form unique multimeric complexes for each of the three different nuclear RNA polymerases. TBP has been cloned from a variety of species and consists of two distinct domains. The C-terminal domain (~180 amino acids) is highly conserved among species, whereas the N-terminal domain varies considerably in length and sequence among different species. The conserved C-terminal domain contains the DNA-binding region as well as regions that interact with positive and negative regulatory proteins. In human TBP, the non-conserved N-terminal domain includes a stretch of glutamine residues ranging from 26 to 42. Several research groups have found an association between expansion of this polyglutamine tract with rare forms of spinocerebellar ataxia and other neurodegenerative diseases including Huntington's disease.

SPECIFICATION SUMMARY

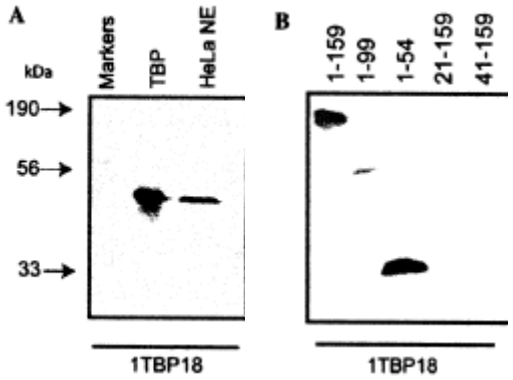
Antigen: Recombinant human TBP.
Host Species: Mouse.
Antibody Class: IgG1.
Preservatives: None. Available on request.

SPECIFICITY

This antibody recognizes an epitope within amino acid residues 1-20 of human, mouse and rat TBP. It does not react with TBP from *Drosophila*, yeast, silk worm, or *Xenopus.* Other species not investigated.

APPLICATIONS

This antibody may be used in Western blot and electrophoretic mobility (gel shift) assays to detect mammalian TBP. It may also be used to immunoprecipitate a truncated TBP molecule containing only the N-terminal domain.



A. Reactivity with rhuTBP and HeLa cell nuclear extract with MAb #70102 at 2ug/ml.
B. Epitope mapping by immunoblot with fragments of rhuTBP with MAB #70102 at 2ug/ml.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C to -70°C. Store product in appropriate aliquots to avoid multiple freeze-thaw cycles.

PRODUCT REFERENCE

Thompson NE et al. 2004 Protein Expression and Purification 36: 186-197.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.

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