

TBP Antibody

Mouse Monoclonal Antibody (Mab)

Catalog # AM8686b

Product Information

Application	WB, E
Primary Accession	P20226
Reactivity	Human, Mouse, Rat, Cynomolgus
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	830CT1.3.3
Calculated MW	37698

Additional Information

Gene ID	6908
Other Names	TATA-box-binding protein, TATA sequence-binding protein, TATA-binding factor, TATA-box factor, Transcription initiation factor TFIID TBP subunit, TBP, GTF2D1, TF2D, TFIID
Target/Specificity	Purified His-tagged TBP protein was used to produced this monoclonal antibody.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TBP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TBP
Synonyms	GTF2D1, TF2D, TFIID {ECO:0000303 PubMed:
Function	The TFIID basal transcription factor complex plays a major role in the initiation of RNA polymerase II (Pol II)-dependent transcription (PubMed: 33795473). TFIID recognizes and binds promoters with or without a

TATA box via its subunit TBP, a TATA-box-binding protein, and promotes assembly of the pre-initiation complex (PIC) (PubMed:[2194289](#), PubMed:[2363050](#), PubMed:[2374612](#), PubMed:[27193682](#), PubMed:[33795473](#)). The TFIID complex consists of TBP and TBP-associated factors (TAFs), including TAF1, TAF2, TAF3, TAF4, TAF5, TAF6, TAF7, TAF8, TAF9, TAF10, TAF11, TAF12 and TAF13 (PubMed:[27007846](#), PubMed:[33795473](#)). The TFIID complex structure can be divided into 3 modules TFIID-A, TFIID-B, and TFIID-C (PubMed:[33795473](#)). TBP forms the TFIID-A module together with TAF3 and TAF5 (PubMed:[33795473](#)). TBP is a general transcription factor that functions at the core of the TFIID complex (PubMed:[2194289](#), PubMed:[2363050](#), PubMed:[2374612](#), PubMed:[27193682](#), PubMed:[33795473](#), PubMed:[9836642](#)). During assembly of the core PIC on the promoter, as part of TFIID, TBP binds to and also bends promoter DNA, irrespective of whether the promoter contains a TATA box (PubMed:[33795473](#)). Component of a BRF2-containing transcription factor complex that regulates transcription mediated by RNA polymerase III (PubMed:[26638071](#)). Component of the transcription factor SL1/TIF-IB complex, which is involved in the assembly of the PIC during RNA polymerase I-dependent transcription (PubMed:[15970593](#)). The rate of PIC formation probably is primarily dependent on the rate of association of SL1 with the rDNA promoter (PubMed:[15970593](#)). SL1 is involved in stabilization of nucleolar transcription factor 1/UBTF on rDNA (PubMed:[15970593](#)).

Cellular Location

Nucleus.

Tissue Location

Widely expressed, with levels highest in the testis and ovary.

Background

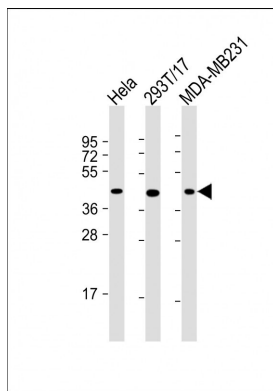
General transcription factor that functions at the core of the DNA-binding multiprotein factor TFIID. Binding of TFIID to the TATA box is the initial transcriptional step of the pre-initiation complex (PIC), playing a role in the activation of eukaryotic genes transcribed by RNA polymerase II. Component of the transcription factor SL1/TIF-IB complex, which is involved in the assembly of the PIC (preinitiation complex) during RNA polymerase I-dependent transcription. The rate of PIC formation probably is primarily dependent on the rate of association of SL1 with the rDNA promoter. SL1 is involved in stabilization of nucleolar transcription factor 1/UBTF on rDNA.

References

Hoffmann A., et al. Nature 346:387-390(1990).
 Peterson M.G., et al. Science 248:1625-1630(1990).
 Kao C.C., et al. Science 248:1646-1650(1990).
 Ebert L., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
 Mungall A.J., et al. Nature 425:805-811(2003).

Images

All lanes : Anti-TBP Antibody at 1:2000 dilution Lane 1:
 Hela whole cell lysate Lane 2: 293T/17 whole cell lysate
 Lane 3: MDA-MB231 whole cell lysate Lysates/proteins at
 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L),
 Peroxidase conjugated at 1/10000 dilution. Predicted
 band size : 38 kDa Blocking/Dilution buffer: 5%
 NFDM/TBST.



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