

**TBP Antibody**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # AW5636****Specification**

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**TBP Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC,E              |
| Primary Accession | <a href="#">P20226</a> |
| Reactivity        | Human, Mouse           |
| Host              | Mouse                  |
| Clonality         | Monoclonal             |
| Calculated MW     | H=40 KDa               |
| Isotype           | IgG1                   |
| Antigen Source    | HUMAN                  |

**TBP Antibody - Additional Information****Gene ID** 6908**Antigen Region**  
1-288**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

**Dilution**

WB~~1:3000

IHC~~1:25

**Target/Specificity**

Purified His-tagged TBP protein was used to produced this monoclonal antibody.

**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.

**TBP Antibody - 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:<a href="http://www.uniprot.org/citations/33795473" target="\_blank">33795473</a>). 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:<a href="http://www.uniprot.org/citations/33795473" target="\_blank">33795473</a>, PubMed:<a href="http://www.uniprot.org/citations/27193682" target="\_blank">27193682</a>, PubMed:<a href="http://www.uniprot.org/citations/2194289" target="\_blank">2194289</a>, PubMed:<a href="http://www.uniprot.org/citations/2363050" target="\_blank">2363050</a>, PubMed:<a href="http://www.uniprot.org/citations/2374612" target="\_blank">2374612</a>). 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:<a href="http://www.uniprot.org/citations/33795473" target="\_blank">33795473</a>, PubMed:<a href="http://www.uniprot.org/citations/27007846" target="\_blank">27007846</a>). The TFIID complex structure can be divided into 3 modules TFIID-A, TFIID-B, and TFIID-C (PubMed:<a href="http://www.uniprot.org/citations/33795473" target="\_blank">33795473</a>). TBP forms the TFIID-A module together with TAF3 and TAF5 (PubMed:<a href="http://www.uniprot.org/citations/33795473" target="\_blank">33795473</a>). TBP is a general transcription factor that functions at the core of the TFIID complex (PubMed:<a href="http://www.uniprot.org/citations/33795473" target="\_blank">33795473</a>, PubMed:<a href="http://www.uniprot.org/citations/27193682" target="\_blank">27193682</a>, PubMed:<a href="http://www.uniprot.org/citations/2194289" target="\_blank">2194289</a>, PubMed:<a href="http://www.uniprot.org/citations/2363050" target="\_blank">2363050</a>, PubMed:<a href="http://www.uniprot.org/citations/2374612" target="\_blank">2374612</a>, PubMed:<a href="http://www.uniprot.org/citations/9836642" target="\_blank">9836642</a>). 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:<a href="http://www.uniprot.org/citations/33795473" target="\_blank">33795473</a>). Component of a BRF2-containing transcription factor complex that regulates transcription mediated by RNA polymerase III (PubMed:<a href="http://www.uniprot.org/citations/26638071" target="\_blank">26638071</a>). 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:<a href="http://www.uniprot.org/citations/15970593" target="\_blank">15970593</a>). The rate of PIC formation probably is primarily dependent on the rate of association of SL1 with the rDNA promoter (PubMed:<a href="http://www.uniprot.org/citations/15970593" target="\_blank">15970593</a>). SL1 is involved in stabilization of nucleolar transcription factor 1/UBTF on rDNA (PubMed:<a href="http://www.uniprot.org/citations/15970593" target="\_blank">15970593</a>).

### Cellular Location

Nucleus.

### Tissue Location

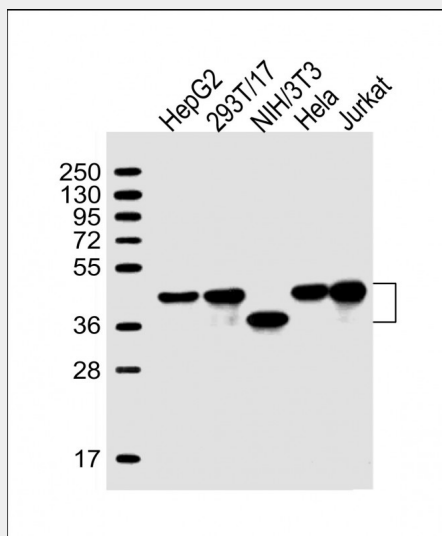
Widely expressed, with levels highest in the testis and ovary.

### TBP Antibody - Protocols

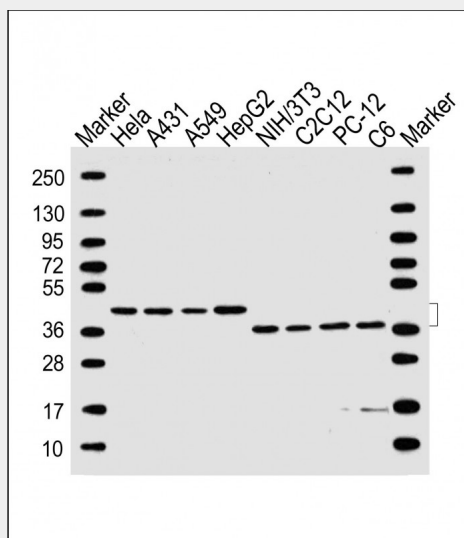
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

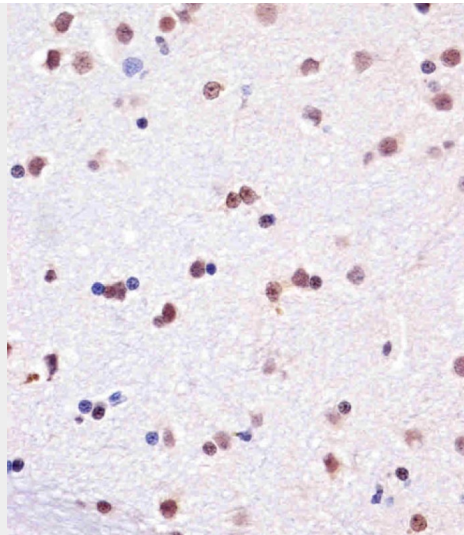
## TBP Antibody - Images



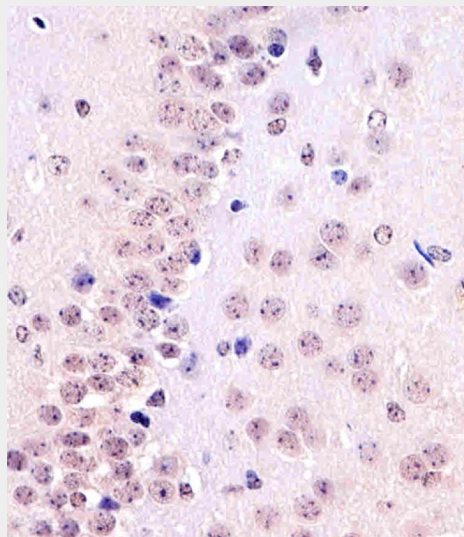
All lanes : Anti-TBP Antibody at 1:2000 dilution Lane 1: HepG2 whole cell lysate Lane 2: 293T/17 whole cell lysate Lane 3: NIH/3T3 whole cell lysate Lane 4: HeLa whole cell lysate Lane 5: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 38 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



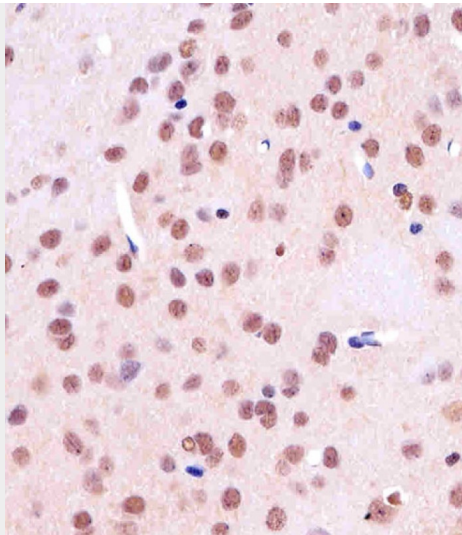
All lanes : Anti-TBP Antibody at 1:3000 dilution Lane 1: HeLa whole cell lysate Lane 2: A431 whole cell lysate Lane 3: A549 whole cell lysate Lane 4: HepG2 whole cell lysate Lane 5: NIH/3T3 whole cell lysate Lane 6: C2C12 whole cell lysate Lane 7: PC-12 whole cell lysate Lane 8: C6 whole cell lysate 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.



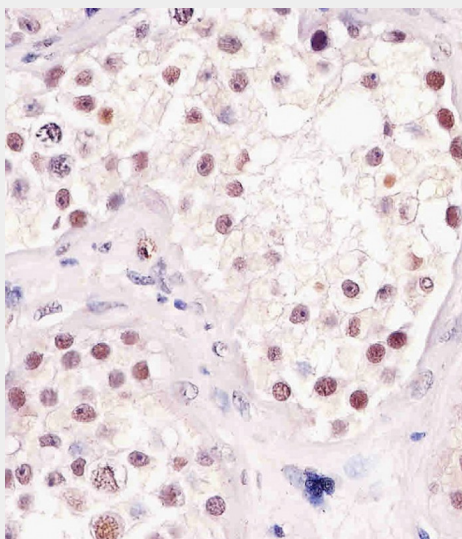
AW5636 staining TBP in Monkey. brain tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



AW5636 staining TBP in mouse brain tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



AW5636 staining TBP in Rat brain tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



AW5636 staining TBP in human testis tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

### **TBP Antibody - 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.

**TBP Antibody - 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).