

**TBP /Transcription factor IID (aa39-50) Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF3723a

### Specification

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#### TBP /Transcription factor IID (aa39-50) Antibody (internal region) - Product Information

Application	WB
Primary Accession	<a href="#">P20226</a>
Other Accession	<a href="#">NP_003185.1</a> , <a href="#">NP_001165556.1</a> , <a href="#">6908</a> , <a href="#">21374 (mouse)</a> , <a href="#">117526 (rat)</a>
Reactivity	Human, Mouse, Rat
Predicted	Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	37698

#### TBP /Transcription factor IID (aa39-50) Antibody (internal region) - 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

#### Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

TBP /Transcription factor IID (aa39-50) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

#### TBP /Transcription factor IID (aa39-50) Antibody (internal region) - 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/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/27193682" target="\_blank">27193682</a>, PubMed:<a href="http://www.uniprot.org/citations/33795473" target="\_blank">33795473</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/27007846" target="\_blank">27007846</a>, PubMed:<a href="http://www.uniprot.org/citations/33795473" target="\_blank">33795473</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/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/27193682" target="\_blank">27193682</a>, PubMed:<a href="http://www.uniprot.org/citations/33795473" target="\_blank">33795473</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

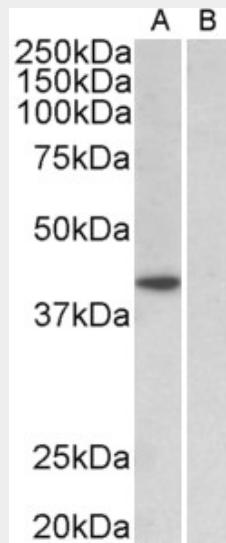
Widely expressed, with levels highest in the testis and ovary.

#### TBP /Transcription factor IID (aa39-50) Antibody (internal region) - 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 /Transcription factor IID (aa39-50) Antibody (internal region) - Images



AF3722a (1  $\mu\text{g/ml}$ ) staining of HeLa nuclear (A) and cytosolic (B) lysates (35  $\mu\text{g}$  protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**TBP /Transcription factor IID (aa39-50) Antibody (internal region) - Background**

This antibody is expected to recognize both reported isoforms (NP\_003185.1; NP\_001165556.1).

**TBP /Transcription factor IID (aa39-50) Antibody (internal region) - References**

TATA-binding protein in neurodegenerative disease. van Roon-Mom WM, Reid SJ, Faull RL, Snell RG. Neuroscience. 2005;133(4):863-72. PMID: 15916858