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

Peptide-affinity purified goat antibody
Catalog # AF3723a

Specification

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

Application	**WB, E**
Primary Accession	P20226
Other Accession	NP_003185.1, NP_001165556.1, 6908, 21374 (mouse), 117526 (rat)
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

Dilution
WB~~1:1000
E~~N/A

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: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.

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

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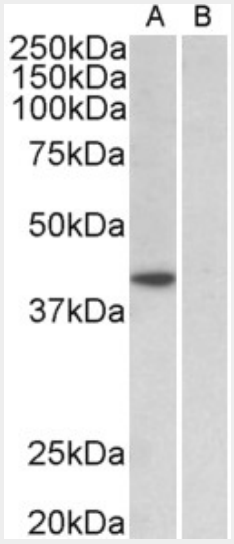
- Flow Cytomety
- Cell Culture

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



AF3722a (1 µg/ml) staining of HeLa nuclear (A) and cytosolic (B) lysates (35 µg 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