

# Anti-TATA binding protein TBP Antibody

## HA500527



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IHC-P
<b>Molecular Wt:</b>	Predicted band size: 38 kDa

**Description:** The TATA-binding protein (TBP) is a general transcription factor that binds specifically to a DNA sequence called the TATA box. This DNA sequence is found about 30 base pairs upstream of the transcription start site in some eukaryotic gene promoters. TBP is a member of a small gene family of TBP-related factors. The first TBP-related factor (TRF/TRF1) was identified in the fruit fly *Drosophila*, but appears to be fly or insect-specific. Subsequently TBPL1/TRF2 was found in the genomes of many metazoans, whereas vertebrate genomes encode a third vertebrate family member, TBPL2/TRF3. In specific cell types or on specific promoters TBP can be replaced by one of these TBP-related factors, some of which interact with the TATA box similarly to TBP.

**Immunogen:** Recombinant protein within human TBP aa 140-339 / 339.

**Positive control:** HeLa cell lysate, HCT 116 cell lysate, 293T cell lysate, HepG2 cell lysate, MCF7 cell lysate, Jurkat cell lysate, C2C12 cell lysate, NIH/3T3 cell lysate, PC-12 cell lysate, RAW264.7 cell lysate, mouse testis tissue lysate, human bladder carcinoma tissue, human testis tissue.

**Subcellular location:** Nucleus.

**Database links:** SwissProt: P20226 Human | P29037 Mouse  
Entrez Gene: 117526 Rat

**Recommended Dilutions:**

<b>WB</b>	1:1,000
<b>IHC-P</b>	1:2,000

**Storage Buffer:** PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Immunogen affinity purified.

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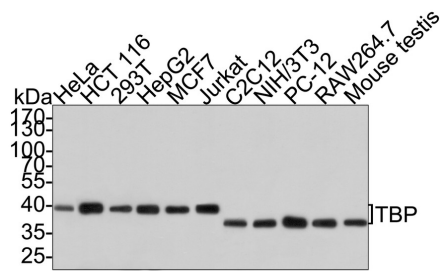
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## Images



**Fig1:** Western blot analysis of TATA binding protein TBP on different lysates with Rabbit anti-TATA binding protein TBP antibody (HA500527) at 1/1,000 dilution.

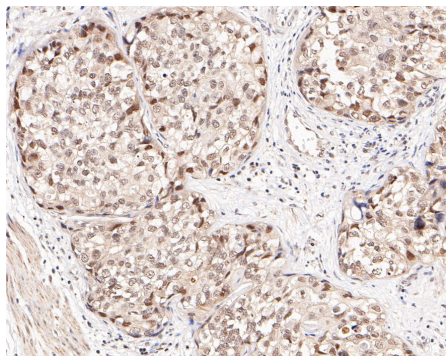
Lane 1: HeLa cell lysate (10 µg/Lane)  
 Lane 2: HCT 116 cell lysate (10 µg/Lane)  
 Lane 3: 293T cell lysate (10 µg/Lane)  
 Lane 4: HepG2 cell lysate (10 µg/Lane)  
 Lane 5: MCF7 cell lysate (10 µg/Lane)  
 Lane 6: Jurkat cell lysate (10 µg/Lane)  
 Lane 7: C2C12 cell lysate (10 µg/Lane)  
 Lane 8: NIH/3T3 cell lysate (10 µg/Lane)  
 Lane 9: PC-12 cell lysate (10 µg/Lane)  
 Lane 10: RAW264.7 cell lysate (10 µg/Lane)  
 Lane 11: Mouse testis tissue lysate (20 µg/Lane)

Predicted band size: 38 kDa  
 Observed band size: 40/36 kDa

Exposure time: 2 minutes;

10% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA500527) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:300,000 dilution was used for 1 hour at room temperature.



**Fig2:** Immunohistochemical analysis of paraffin-embedded human bladder carcinoma tissue with Rabbit anti-TATA binding protein TBP antibody (HA500527) at 1/2,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA500527) at 1/2,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

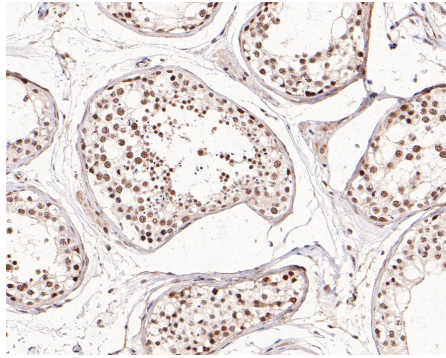
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**Fig3:** Immunohistochemical analysis of paraffin-embedded human testis tissue with Rabbit anti-TATA binding protein TBP antibody (HA500527) at 1/2,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA500527) at 1/2,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### Background References

1. Wang H et al. Structures and implications of TBP-nucleosome complexes. *Proc Natl Acad Sci U S A.* 2021 Jul
2. Magri S et al. Digenic inheritance of STUB1 variants and TBP polyglutamine expansions explains the incomplete penetrance of SCA17 and SCA48. *Genet Med.* 2022 Jan

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