**Basic Information**

<table>
<thead>
<tr>
<th>Catalog Number:</th>
<th>66166-1-lg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size:</td>
<td>225 μg/150 μl</td>
</tr>
<tr>
<td>Source:</td>
<td>Mouse</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG2a</td>
</tr>
<tr>
<td>Purification Method:</td>
<td>Protein A purification</td>
</tr>
<tr>
<td>Immunogen Catalog Number:</td>
<td>AG12383</td>
</tr>
</tbody>
</table>

**Recommended Dilutions:**

- WB: 1:2000-1:16000
- IP: 0.5-4.0 ug for IP and 1:1000-1:1000 for WB
- IHC: 1:25-1:1000

**Full Name:** TATA box binding protein

**GenBank Accession Number:** BC790441

**GeneID (NCBI):** 6908

**Calculated MW:** 338 aa, 38 kDa

**Observed MW:** mouse/rat 33-36 kDa and human 37-43 kDa

**Storage:**

Store at -20ºC. Stable for one year after shipment.

**Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

**Note:** suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

**Applications**

- Tested Applications: FC, IF, IHC, IP, WB, ELISA
- Cited Applications: WB
- Species Specificity: human, mouse, rat, pig
- Cited Species: human, rat

**Positive Controls:**

- WB: HEK-293 cells; pig liver tissue
- IP: HEK-293 cells;
- IHC: human liver cancer tissue; human breast cancer tissue
- IF: HeLa cells

**Background Information**

The TATA binding protein (TBP) is a transcription factor that binds specifically to a DNA sequence TATA box. This DNA sequence is found about 25-30 base pairs upstream of the transcription start site in some eukaryotic gene promoters. TBP, along with a variety of TBP-associated factors, make up the TFIID, a general transcription factor that in turn makes up part of the RNA polymerase II preinitiation complex. As one of the few proteins in the preinitiation complex that binds DNA in a sequence-specific manner, it helps position RNA polymerase II over the transcription start site of the gene. However, it is estimated that only 10-20% of human promoters have TATA boxes. Therefore, TBP is probably not the only protein involved in positioning RNA polymerase II. This antibody detects human TBP (~40 kDa) and mouse/rat Tbp (~35 kDa).

**Notable Publications**

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yaru Sheng</td>
<td>31054182</td>
<td>Cell Prolif</td>
<td>WB</td>
</tr>
<tr>
<td>Jiali Li</td>
<td>2095721</td>
<td>Cell Physiol Biochem</td>
<td>WB</td>
</tr>
<tr>
<td>Xiaoxing Liu</td>
<td>30968148</td>
<td>Int J Oncol</td>
<td>WB</td>
</tr>
</tbody>
</table>

**For technical support and original validation data for this product please contact:**

E: proteintech@ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
100,000 HepG2 cells were stained with 0.20 μg TBP antibody (66166-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH.

Western blot analysis of TBP in various cell lines using Proteintech antibody 66166-1-Ig at a dilution of 1:8000 incubated at room temperature for 1.5 hours.

IP Result of anti-TBP (IP: 66166-1-Ig, 3μg; Detection: 66166-1-Ig 1:800) with HEK-293 cells lysate 1800μg.

Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66166-1-Ig (TBP Antibody) at dilution of 1:650 (under 40x lens). Heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

Immunofluorescent analysis of 10% Formaldehyde fixed HeLa cells using 66166-1-Ig (TBP antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).