

For Research Use Only

# TBP Polyclonal antibody

Catalog Number: 22006-1-AP

86 Publications



## Basic Information

### Catalog Number:

22006-1-AP

### Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG12383

### GenBank Accession Number:

BC110341

### GeneID (NCBI):

6908

### UNIPROT ID:

P20226

### Full Name:

TATA box binding protein

### Calculated MW:

338 aa, 38 kDa

### Observed MW:

mouse/rat 33-36 kDa and human 37-43 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:500-1:3000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:250-1:1000

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IHC, IF, IP, ChIP

### Species Specificity:

human, mouse, Rat

### Cited Species:

human, mouse, rat, pig, monkey, sheep

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

### Positive Controls:

WB: COLO 320 cells,

IP: COLO 320 cells,

IHC: mouse testis tissue, human breast cancer tissue, rat liver tissue

## 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 recognize human TBP with MW 40 kDa and mouse/rat Tbp with MW 34 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Qi Xiao	28944825	Mol Med Rep	WB
Qiu Zhong	36132230	Oxid Med Cell Longev	WB
Chang Wang	33013689	Front Endocrinol (Lausanne)	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

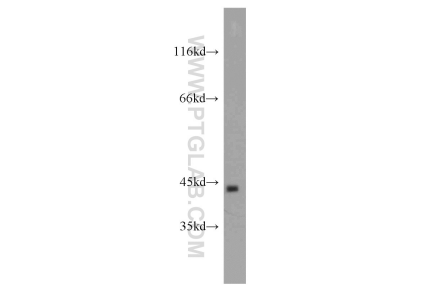
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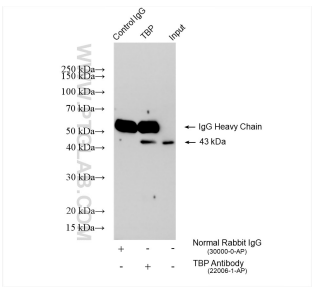
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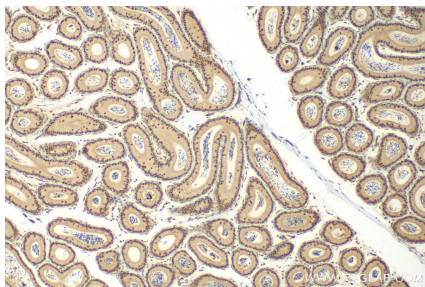
Selected Validation Data



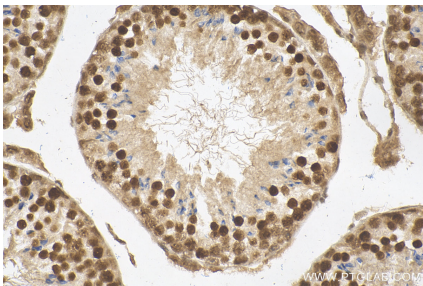
COLO 320 cells were subjected to SDS PAGE followed by western blot with 22006-1-AP (TBP antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-TBP (IP:22006-1-AP, 4ug; Detection:22006-1-AP 1:500) with COLO 320 cells lysate 2560 ug.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 22006-1-AP (TBP antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 22006-1-AP (TBP antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).