

For Research Use Only

# CoraLite®650-conjugated TBP Monoclonal antibody

Catalog Number: CL650-66166



## Basic Information

### Catalog Number:

CL650-66166

### Size:

1000 µg/ml

### Source:

Mouse

### Isotype:

IgG2a

### 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:

Protein A purification

### CloneNo.:

2H3B2

### Excitation/Emission maxima wavelengths:

654 nm / 674 nm

## Applications

### Tested Applications:

### Species Specificity:

human, mouse, rat, pig

## 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).

## Storage

### Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

### Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

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