

# CoraLite®594-conjugated TBP Monoclonal antibody

Catalog Number: CL594-66166

## Basic Information

**Catalog Number:**

CL594-66166

**Size:**

1000 ug/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 37-43kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

2H3B2

**Recommended Dilutions:**

IF/ICC 1:50-1:500

**Excitation/Emission maxima wavelengths:**

588 nm / 604 nm

## Applications

**Tested Applications:**

IF/ICC

**Species Specificity:**

human, mouse, rat, pig

**Positive Controls:**

IF/ICC : A431 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).

## Storage

**Storage:**

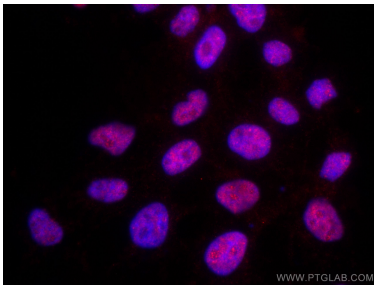
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

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

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed A431 cells using CoraLite®594 TBP antibody (CL594-66166, Clone: 2H3B2 ) at dilution of 1:100.