

For Research Use Only

CoraLite®555-conjugated TBP Monoclonal antibody



Catalog Number:CL555-66166

Basic Information

Catalog Number:

CL555-66166

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 37-43kDa

Purification Method:

Protein A purification

CloneNo.:

2H3B2

Recommended Dilutions:

IF 1:50-1:500

Excitation/Emission maxima
wavelengths:

557 nm / 570 nm

Applications

Tested Applications:

FC (Intra), IF/ICC

Species Specificity:

human, mouse, rat, pig

Positive Controls:

IF : 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

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

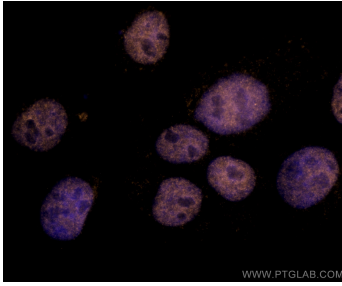
T: 4006900926

E: Proteintech-CN@ptglab.com

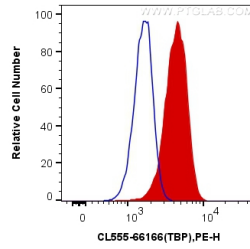
W: ptgcn.com

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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed A431 cells using CoraLite®555 TBP antibody (CL555-66166, Clone: 2H3B2) at dilution of 1:100.



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug CoraLite®555 Anti-Human TBP (CL555-66166, Clone:2H3B2) (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).