

CoraLite® Plus 488-conjugated TBP Monoclonal antibody

Catalog Number: **CL488-66166**

Basic Information

Catalog Number: CL488-66166	GenBank Accession Number: BC110341	Purification Method: Protein A purification
Size: 2000 µg/ml	GeneID (NCBI): 6908	CloneNo.: 2H3B2
Source: Mouse	UNIPROT ID: P20226	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG2a	Full Name: TATA box binding protein	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG12383	Calculated MW: 338 aa, 38 kDa	

Applications

Tested Applications: IF/ICC, FC (Intra)	Positive Controls: IF/ICC : C2C12 cells, A431 cells
Species Specificity: human, mouse, rat, pig	

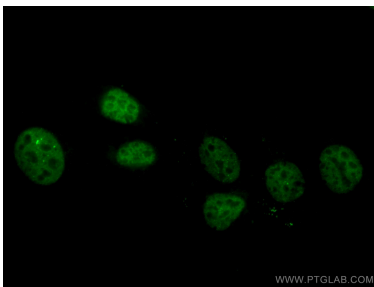
Background Information

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).

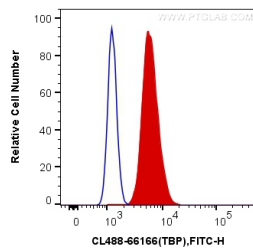
Storage

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

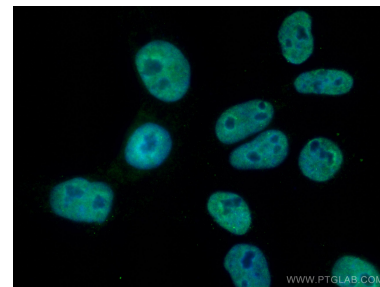
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using CL488-66166 (TBP antibody) at dilution of 1:50.



1X10⁶ HeLa cells were intracellularly stained with 0.2 ug CoraLite® Plus 488 Anti-Human TBP (CL488-66166, Clone:2H3B2) (red), or 0.2 ug Mouse IgG2a Isotype Control (CL488-66360-2, Clone: K11A1B2A2) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunofluorescent analysis of (4% PFA) fixed A431 cells using CoraLite® Plus 488 TBP antibody (CL488-66166, Clone: 2H3B2) at dilution of 1:100.