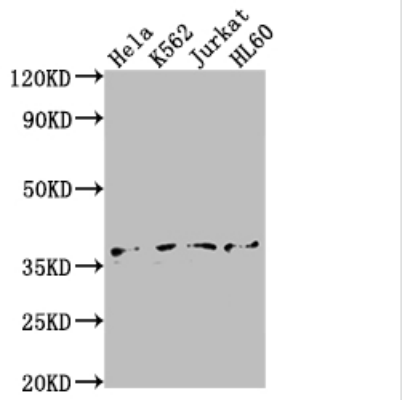
TBP Recombinant Monoclonal Antibody

Product Code	CSB-RA821481A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P20226
Immunogen	A synthesized peptide derived from human TBP
Species Reactivity	Human
Tested Applications	ELISA, WB; Recommended dilution: WB:1:500-1:5000
Relevance	General transcription factor that functions at the core of the DNA-binding multiprotein factor TFIID (PubMed:2374612, PubMed:2363050, PubMed:2194289, PubMed:9836642, PubMed:27193682). Binding of TFIID to the TATA box is the initial transcriptional step of the pre-initiation complex (PIC), playing a role in the activation of eukaryotic genes transcribed by RNA polymerase II (PubMed:2374612, PubMed:2363050, PubMed:2194289, PubMed:9836642, PubMed:27193682). Component of a BRF2-containing transcription factor complex that regulates transcription mediated by RNA polymerase III (PubMed:26638071). Component of the transcription factor SL1/TIF-IB complex, which is involved in the assembly of the PIC (pre-initiation complex) during RNA polymerase I-dependent transcription (PubMed:15970593). The rate of PIC formation probably is primarily dependent on the rate of association of SL1 with the rDNA promoter. SL1 is involved in stabilization of nucleolar transcription factor 1/UBTF on rDNA.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Isotype/Loading Controls; Epigenetics and Nuclear Signaling
Gene Names	TBP
Clone No.	3C7
Image	



Western Blot
Positive WB detected in: Hela whole cell lysate, K562 whole cell lysate, Jurkat whole cell lysate, HL60 whole cell lysate
All lanes: TBP antibody at 1:2000
Secondary
Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 38, 36 kDa
Observed band size: 36 kDa

Description

The first step in the preparation of recombinant TBP antibody is to obtain the TBP antibody gene. The heavy and light chain genes of the antibody were constructed into a plasma vector and then transfected into suspended mammalian cells transiently. After expression verification, cell supernatant was collected in expanded culture and purified recombinant TBP antibody was obtained using affinity-chromatography. This recombinant TBP antibody has been validated for the detection of TBP protein from Human in the ELISA, WB.

TBP is an important component of the transcription initiation machinery in eukaryotes. TBP is crucial for all archaeal-eukaryotic transcription initiation complexes, and it's the only factor that allows all three eukaryotic and archaeal transcription systems to attain full states of initiation. It attaches to the central promoter and, through interactions with other factors, acts as a nexus for gene regulation. TBP levels have an impact on the transcription of genes involved in the cell cycle. TBP is also involved in the transmission of active gene memory to daughter cells during mitosis.