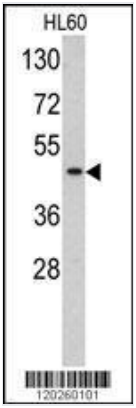
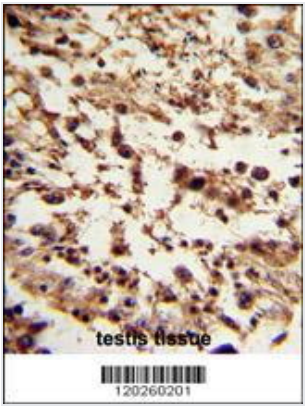
TBP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

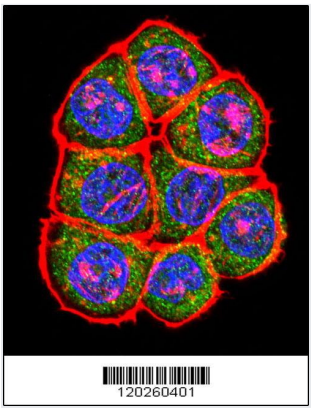
Product Name	TBP, Polyclonal Antibody
Full Product Name	TBP, CT (TATA-box-binding Protein, TATA-box Factor, TATA-binding Factor, TATA Sequence-binding Protein, Transcription Initiation Factor TFIID TBP Subunit, TFIID, TF2D, GTF2D1) (APC)
Product Gene Name	anti-TBP antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human TBP.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	37,698 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (170863421..170881958). Location: 6q27
OMIM	600075
3D Structure	ModBase 3D Structure for P20226
Immunogen	Synthetic peptide selected from the C-terminal region of human TBP (KLH).
Conjugate	APC
Note	Preservative Free
Product Categories/Family for anti-TBP antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-TBP antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-TBP antibody	WB: 1:50-1:100 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-TBP antibody	MBS6502020 is an antibody targeting TBP. Also known as TBP, CT (TATA-box-binding Protein, TATA-box Factor, TATA-binding Factor, TATA Sequence-binding Protein, Transcription Initiation Factor TFIID TBP Subunit, TFIID, TF2D, GTF2D1) (APC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-TBP antibody	1. Ohi, K., Genes Brain Behav. 8(4), 473-480 (2009). 2. Reid, S.J., Brain Res. 1268, 190-199 (2009).
Other Notes	Small volumes of anti-TBP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-TBP antibody
Western blot analysis of TBP antibody (C-term) in HL60 cell line lysates (35ug/lane). TBP (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-TBP antibody
Formalin-fixed and paraffin-embedded human testis tissue reacted with TBP Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Immunofluorescence (IF) of anti-TBP antibody
Confocal immunofluorescent analysis of TBP Antibody (C-term) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).DAPI was used to stain the cell nuclear (blue).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TBP. It may not necessarily be applicable to this product.

NCBI GI #	4507379
NCBI GeneID	6908
NCBI Accession #	NP_003185
UniProt Primary Accession #	P20226
UniProt Secondary Accession #	Q16845; Q6IBM6; Q9UC02; B4E3B3; F5H869
UniProt Related Accession #	P20226
GenBank Nucleotide #	NM_003194.4
NCBI Official Full Name	TATA-box-binding protein isoform 1
NCBI Official Synonym Full Names	TATA box binding protein
NCBI Official Symbol	TBP
NCBI Official Synonym Symbols	HDL4; GTF2D; SCA17; TFIID; GTF2D1
UniProt Protein Name	TATA-box-binding protein

UniProt Synonym Protein Names	TATA sequence-binding protein; TATA-binding factor; TATA-box factor; Transcription initiation factor TFIID TBP subunit
Protein Family	TATA-box-binding protein
UniProt Gene Name	TBP
UniProt Synonym Gene Names	GTF2D1; TF2D; TFIID
UniProt Entry Name	TBP_HUMAN
NCBI Protein Information	TATA-box-binding protein; TATA-box factor; TATA sequence-binding protein; TATA-box binding protein N-terminal domain; transcription initiation factor TFIID TBP subunit
NCBI Summary for TBP	Initiation of transcription by RNA polymerase II requires the activities of more than 70 polypeptides. The protein that coordinates these activities is transcription factor IID (TFIID), which binds to the core promoter to position the polymerase properly, serves as the scaffold for assembly of the remainder of the transcription complex, and acts as a channel for regulatory signals. TFIID is composed of the TATA-binding protein (TBP) and a group of evolutionarily conserved proteins known as TBP-associated factors or TAFs. TAFs may participate in basal transcription, serve as coactivators, function in promoter recognition or modify general transcription factors (GTFs) to facilitate complex assembly and transcription initiation. This gene encodes TBP, the TATA-binding protein. A distinctive feature of TBP is a long string of glutamines in the N-terminus. This region of the protein modulates the DNA binding activity of the C terminus, and modulation of DNA binding affects the rate of transcription complex formation and initiation of transcription. The number of CAG repeats encoding the polyglutamine tract is usually 32-39, and expansion of the number of repeats increases the length of the polyglutamine string and is associated with spinocerebellar ataxia 17, a neurodegenerative disorder classified as a polyglutamine disease. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2010]
UniProt Comments for TBP	TBP: General transcription factor that functions at the core of the DNA-binding multiprotein factor TFIID. 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. Component of the transcription factor SL1/TIF-IB complex, which is involved in the assembly of the PIC (preinitiation complex) during RNA polymerase I-dependent transcription. 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. Binds DNA as monomer. Belongs to the TFIID complex together with the TBP-associated factors (TAFs). Component of the transcription factor SL1/TIF-IB complex, composed of TBP and at least TAF1A, TAF1B TAF1C and TAF1D. Association of TBP to form either TFIID or SL1/TIF-IB appears to be mutually exclusive. Interacts with TAF1A, TAF1B and TAF1C. Interacts with TFIIB, NCOA6, DRAP1, DR1 and ELF3. Interacts with SPIB, SNAPC1, SNAPC2 and SNAPC4. Interacts with UTF1. Interacts with BRF2. Interacts with UBTF. Interacts with GPBP1. Interacts with CITED2. Interacts with ATF7IP. Interacts with HIV-1 Tat. Widely expressed, with levels highest in the testis and ovary. Belongs to the TBP family. Protein type: Transcription initiation complex; DNA-binding; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 6q27 Cellular Component: nucleoplasm; transcription factor TFIID complex; male pronucleus; cytoplasm; female pronucleus; transcription factor TFIIA complex Molecular Function: protein binding; transcription factor binding; transcription factor activity Biological Process: chromatin silencing at rDNA; transcription from RNA polymerase II promoter; transcription initiation from RNA polymerase II promoter; viral reproduction; positive regulation of transcription, DNA-dependent; RNA elongation from RNA polymerase I promoter; transcription from RNA polymerase I promoter; termination of RNA polymerase I transcription; regulation of gene expression, epigenetic; transcription from RNA polymerase III promoter; negative regulation of gene expression, epigenetic; RNA elongation from RNA polymerase II promoter; gene expression; spermatogenesis; transcription initiation from RNA polymerase I promoter Disease: Parkinson Disease, Late-onset; Spinocerebellar Ataxia 17
Research Articles on TBP	**1.** These studies suggest a model in which the distinct conformations of TFIID may serve as targets through which regulatory factors recruit TFIID to specific types of core promoters.

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