

Rabbit TBP Polyclonal Antibody | anti-TBP antibody

TBP Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326670	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

TBP; Polyclonal Antibody; TBP Antibody; GTF2D; GTF2D1; HDL4; MGC117320; MGC126054; MGC126055; SCA17; TATA binding factor; TATA box factor; TATA sequence binding protein; TATA sequence-binding protein; TATA-binding factor; TATA-box binding protein N-terminal domain; TATA-box factor; TATA-box-binding protein; TBP_HUMAN; TFIID; Transcription initiation factor TFIID TBP subunit; anti-TBP antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	TBP antibody detects endogenous levels of total TBP
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	319
Applicable Applications for anti-TBP antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TBP
Subcellular Location	Nucleus.
Tissue Specificity	Widely expressed, with levels highest in the testis and ovary.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

AAA326670 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)

AAA326670 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts of Jurkat, using TBP antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-TBP antibody	Description: 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 protein is not suitable for samples where the nuclear envelope has been removed. Function: 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. Subunit Structure: Binds DNA as monomer (PubMed:2374612, PubMed:2194289). Belongs to the TFIID complex together with the TBP-associated factors (TAFs) (PubMed:9836642, PubMed:27007846). Part of a TFIID-containing RNA polymerase II pre-initiation complex that is composed of TBP and at least GTF2A1, GTF2A2, GTF2E1, GTF2E2, GTF2F1, GTF2H2, GTF2H3, GTF2H4, GTF2H5, GTF2B, TCEA1, ERCC2, ERCC3, TAF1, TAF2, TAF3, TAF4, TAF5, TAF6, TAF7, TAF8, TAF9, TAF10, TAF11, TAF12 and TAF13 (PubMed:27007846). Component of the transcription factor SL1/TIF-IB complex, composed of TBP and at least TAF1A, TAF1B, TAF1C and TAF1D (PubMed:7801123). Association of TBP to form either TFIID or SL1/TIF-IB appears to be mutually exclusive (PubMed:7801123). Interacts with TAF1A, TAF1B and TAF1C (PubMed:7801123). Interacts with TFIIB, NCOA6, DRAP1, DR1 and ELF3 (PubMed:10567404, PubMed:10391676, PubMed:11461703). Interacts with SPIB, SNAPC1, SNAPC2 and SNAPC4 (PubMed:10196196, PubMed:12621023). Interacts with UTF1 (PubMed:9748258). Interacts with BRF2; this interaction promotes recruitment of BRF2 to TATA box-containing promoters (PubMed:11564744, PubMed:26638071). Interacts with UBTF (PubMed:7982918). Interacts with GPBP1 (By similarity). Interacts with CITED2 (By similarity). Interacts with ATF7IP (Probable). Interacts with HIV-1 Tat (PubMed:8121496, PubMed:7608968, PubMed:15719058). Interacts with herpes simplex virus 1 ICP4 (PubMed:8392607). Interacts with human adenovirus E1A protein; this interaction probably disrupts the TBP-TATA complex (PubMed:8146144). Interacts with LLPB (By similarity). Interacts with HSF1 (via transactivation domain) (PubMed:11005381). Similarity: Belongs to the TBP family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	285026520
NCBI GeneID	6908
NCBI Accession #	NP_001165556.1
NCBI GenBank Nucleotide #	NM_001172085.1
UniProt Accession #	P20226; Q16845; Q6IBM6; Q9UC02; B4E3B3; F5H869
Molecular Weight	Observed: 38 kDa Predicted: 38 kDa
NCBI Official Full Name	TATA-box-binding protein isoform 2

NCBI Official Synonym Full Names	TATA-box binding protein
NCBI Official Symbol	TBP
NCBI Official Synonym Symbols	HDL4; GTF2D; SCA17; TFIID; GTF2D1
NCBI Protein Information	TATA-box-binding protein
UniProt Protein Name	TATA-box-binding protein
UniProt Gene Name	TBP
UniProt Synonym Gene Names	GTF2D1; TF2D; TFIID1 PublicationManual assertion based on opinion iniRef.1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tbp-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326670>