

Product datasheet

Recombinant Human TATA binding protein TBP ab81897

[1 References](#) [2 Images](#)

Description

Product name	Recombinant Human TATA binding protein TBP
Biological activity	1 unit equals 1 nanogram of purified protein.
Purity	> 95 % SDS-PAGE.
Expression system	Escherichia coli
Accession	<u>NM_003194</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MDQNNSLPPY AQGLASPQGA MTPGPIFSP MMPYGTGLTP QPIQ NTNSL SILEEQQRQQ QQQQQQQQQQ QQQQQQQQQQ QQQQQQQQQQ QQQQQQAVAA AAV QQSTSQ QATQGTSGQA PQLFHSQTLT TAPLP GTTPL YPSMTPMTP ITPATPASES SG IVPQLQN IVSTVNLGCK LDLKTIALRA RNAEYNPKRF AAVIMRIREP RTTALIFSSG K MVCTGAKS EEQSRLAARK YARVVQKLGF PAKFLDFKIQ NMVGSCDVKF PIRLEGLVLT HQQFSSYEP ELFPGLIYRM IKPRVLLIF VSGKVVL TGA KVRAEMEAF ENYPILKG FRKTT
Predicted molecular weight	39 kDa
Amino acids	1 to 339
Tags	His tag N-Terminus

Specifications

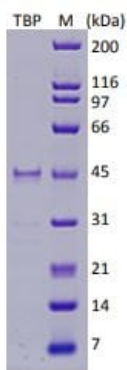
Our **Abpromise guarantee** covers the use of **ab81897** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

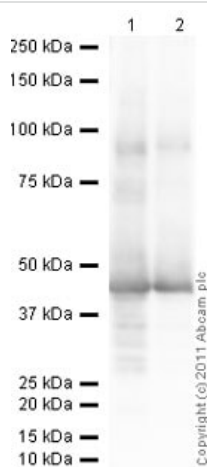
Applications	Gel Supershift Assays
	SDS-PAGE

	Western blot
	EMSA
Form	Liquid
Additional notes	1 unit equals 1 nanogram of purified protein.
Preparation and Storage	
Stability and Storage	<p>Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.</p> <p>pH: 7.9</p> <p>Constituents: 0.75% Potassium chloride, 0.0154% DTT, 0.316% Tris HCl, 0.00584% EDTA, 20% Glycerol (glycerin, glycerine)</p>
General Info	
Function	<p>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.</p>
Tissue specificity	Widely expressed, with levels highest in the testis and ovary.
Involvement in disease	<p>Defects in TBP are the cause of spinocerebellar ataxia type 17 (SCA17) [MIM:607136]. Spinocerebellar ataxia is a clinically and genetically heterogeneous group of cerebellar disorders. Patients show progressive incoordination of gait and often poor coordination of hands, speech and eye movements, due to degeneration of the cerebellum with variable involvement of the brainstem and spinal cord. SCA17 is an autosomal dominant cerebellar ataxia (ADCA) characterized by widespread cerebral and cerebellar atrophy, dementia and extrapyramidal signs. The molecular defect in SCA17 is the expansion of a CAG repeat in the coding region of TBP. Longer expansions result in earlier onset and more severe clinical manifestations of the disease.</p>
Sequence similarities	Belongs to the TBP family.
Cellular localization	Nucleus.

Images



SDS-PAGE - Recombinant Human TATA binding protein TBP (ab81897)



Western blot - Recombinant Human TATA binding protein TBP (ab81897)

All lanes : Anti-TATA binding protein TBP antibody - Nuclear Loading Control and ChIP Grade ([ab63766](#)) at 1 µg/ml

Lane 1 : Recombinant Human TATA binding protein TBP (ab81897) at 0.1 µg

Lane 2 : Recombinant Human TATA binding protein TBP (ab81897) at 0.01 µg

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Exposure time: 10 seconds

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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