

Rabbit Anti-TATA binding protein TBP/TBP antibody

SL11766R

Product Name:	TATA binding protein TBP/TBP
Chinese Name:	TATABinding proteinTBP/TFIID抗体
Alias:	GTF2D; GTF2D1; TFIID; MGC117320; MGC126054; MGC126055; SCA 17; SCA17;
	TATA binding factor; TATA box binding protein; TATA box factor; TATA sequence
	binding protein; TATA sequence-binding protein; TATA binding protein TBP; TATA-
	binding factor; TATA-box factor; TATA-box-binding protein; TBP; TBP_HUMAN;
	TF2D; TFIID; Transcription initiation factor TFIID TBP subunit.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-
	500IF=1:100-500 (Paraffin sections need antigen repair)
	not yet tested in other applications.
	optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	38kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TATA binding protein TBP:201- 339/339
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized
	antibody is stable at room temperature for at least one month and for greater than a year
	when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of
	antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

	Initiation of the provincian by DNIA malamana - II as a visit of the stimities of the stimute of the stimities of the stimiti
	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]
	Function:
	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
Product Detail·	pre-initiation complex (PIC), playing a role in the activation of eukaryotic genes
i i ouuce Detuite	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 1-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 nucleofar transcription factor 1/0B11 on fDNA.
	Subunit:
	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 (By
	similarity). Interacts with ATF7IP. Interacts with HIV-1 Tat.
	Subcellular Location:
	Nucleus.
	Tissue Specificity:
	widely expressed, with levels highest in the testis and ovary.
	DISEASE:

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.

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Similarity: Belongs to the TBP family.

SWISS: P20226

Gene ID: 6908

Database links:

Entrez Gene: 6908 Human

Entrez Gene: 21374 Mouse

Entrez Gene: 117526 Rat

Entrez Gene: 395995 Chicken

<u>Omim: 600075</u> Human

SwissProt: 013270 Chicken

SwissProt: P20226 Human

SwissProt: P29037 Mouse

Unigene: 1100 Human

Unigene: 590872 Human

Unigene: 244820 Mouse

Unigene: 22712 Rat

Important Note:



