

ARG54636
anti-TBP / TATA Binding Protein antibody [1TBP18]Package: 100 µg, 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [1TBP18] recognizes TBP / TATA Binding Protein
Tested Reactivity	Hu, Ms, Rat
Species Does Not React With	Dm, Xenopus, Yeast
Tested Application	IP, WB
Specificity	This antibody recognizes an epitope within amino acid residues 1-20 of human, mouse and rat TBP. It does not react with TBP from Drosophila, yeast, silk worm, or Xenopus. Other species not investigated.
Host	Mouse
Clonality	Monoclonal
Clone	1TBP18
Isotype	IgG1
Target Name	TBP / TATA Binding Protein
Species	Human
Immunogen	Recombinant human TBP
Epitope	1-20 a.a.
Conjugation	Un-conjugated
Alternate Names	TATA-binding factor; SCA17; TATA sequence-binding protein; Transcription initiation factor TFIID TBP subunit; GTF2D1; TATA-box factor; TFIID; GTF2D; HDL4; TATA-box-binding protein

Application Instructions

Application table	Application	Dilution
	IP	Assay-dependent
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HeLa	

Properties

Form	Liquid
Purification	Protein G affinity chromatography
Buffer	PBS (pH 7.4)
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 21374 Mouse](#)

[GeneID: 6908 Human](#)

[Swiss-port # P20226 Human](#)

[Swiss-port # P29037 Mouse](#)

Gene Symbol

TBP

Gene Full Name

TATA box binding protein

Background

The TATA-binding protein (TBP) plays a central role in the assembly of most eukaryotic transcription initiation complexes. TBP assembles with other proteins to form unique multimeric complexes for each of the three different nuclear RNA polymerases. TBP has been cloned from a variety of species and consists of two distinct domains. The C-terminal domain (~180 amino acids) is highly conserved among species, whereas the N-terminal domain varies considerably in length and sequence among different species. The conserved C-terminal domain contains the DNA-binding region as well as regions that interact with positive and negative regulatory proteins. In human TBP, the non-conserved N-terminal domain includes a stretch of glutamine residues ranging from 26 to 42. Several research groups have found an association between expansion of this polyglutamine tract with rare forms of spinocerebellar ataxia and other neurodegenerative diseases including Huntington's disease.

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 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. [UniProt]

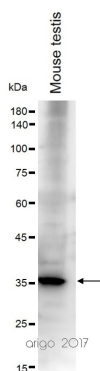
Research Area

Controls and Markers antibody; Gene Regulation antibody

Calculated Mw

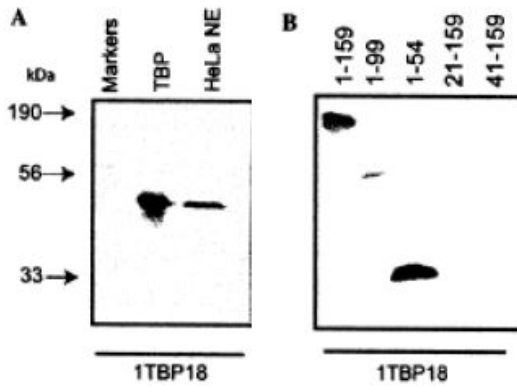
38 kDa

Images



ARG54636 anti-TBP / TATA Binding Protein antibody [1TBP18] WB image

Western blot: 30 µg of Mouse testis lysate stained with ARG54636 anti-TBP / TATA Binding Protein antibody [1TBP18] at 1:500 dilution.



ARG54636 anti-TBP / TATA Binding Protein antibody [1TBP18] WB image

Western blot: A. rhuTBP and HeLa cell nuclear extract; B. Epitope mapping: fragments of rhuTBP samples stained with ARG54636 anti-TBP / TATA Binding Protein antibody [1TBP18] at 2 μ g/ml dilution.