

# Anti-TATA binding protein TBP antibody [1TBP18] - ChIP Grade ab818

★★★★★ [39 Abreviews](#) [257 References](#) [2 图像](#)

### 概述

产品名称	Anti-TATA binding蛋白TBP抗体[1TBP18] - ChIP Grade
描述	小鼠单克隆抗体[1TBP18] to TATA binding蛋白TBP - ChIP Grade
宿主	Mouse
经测试应用	适用于: ICC, IHC-Fr, IP, ICC/IF, IHC-P, ChIP/Chip, EMSA, ELISA, Flow Cyt, WB, ChIP
种属反应性	与反应: Mouse, Rat, Human 不与反应: Saccharomyces cerevisiae, Xenopus laevis, Drosophila melanogaster, Silk worm
免疫原	Synthetic peptide corresponding to Human TATA binding protein TBP.
表位	Within amino acid residues 1-20 of human, mouse and rat TBP. The specific epitope for this antibody is accessible when the C-terminal domain of TBP is removed or when TBP is complexed with DNA.
常规说明	<p>This product was changed from ascites to tissue culture supernatant on 19/12/2018. Please note that the dilutions may need to be adjusted accordingly. If you have any questions please do not hesitate to contact our scientific support team.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.4 Preservative: 0.02% Sodium azide
纯度	Protein G purified

纯化说明	Purified from TCS
克隆	单克隆
克隆编号	1TBP18
同种型	IgG1

应用

The Abpromise guarantee      **Abpromise™**承诺保证使用ab818于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC	★★★★★ (1)	Use at an assay dependent concentration.
IHC-Fr	★★★★★ (1)	Use at an assay dependent concentration.
IP	★★★★★ (2)	Use at an assay dependent concentration.
ICC/IF	★★★★★ (4)	Use at an assay dependent concentration.
IHC-P	★★★★★ (1)	Use at an assay dependent concentration.
ChIP/Chip	★★★★★ (1)	Use at an assay dependent concentration.
EMSA		Use at an assay dependent concentration.
ELISA	★★★★★ (2)	Use at an assay dependent concentration. We recommend Rabbit Anti-Mouse IgG H&L (Alkaline Phosphatase) ( <a href="#">ab6729</a> ) secondary antibody.
Flow Cyt		Use 1µg for 10 <sup>6</sup> cells. <b>ab170190</b> and <b>ab81216</b> - Mouse monoclonal IgG1, are suitable for use as an isotype control with this antibody. We recommend Goat Anti-Mouse IgG H&L (DyLight® 488) preadsorbed ( <a href="#">ab96879</a> ) secondary antibody
WB	★★★★★ (24)	Use at an assay dependent concentration. Predicted molecular weight: 38 kDa. PubMed: 23767827
ChIP	★★★★★ (2)	Use 5-10 µg for 25 µg of chromatin.

靶标

功能	<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</p>
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组织特异性

疾病相关

序列相似性

细胞定位

promoter. SL1 is involved in stabilization of nucleolar transcription factor 1/UBTF on rDNA.

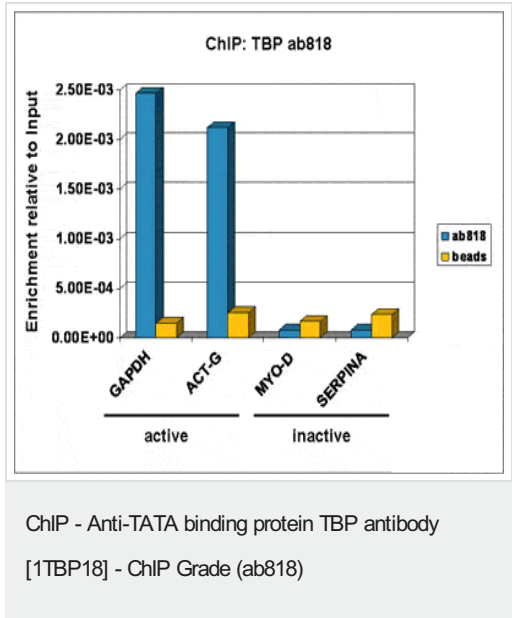
Widely expressed, with levels highest in the testis and ovary.

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.

Belongs to the TBP family.

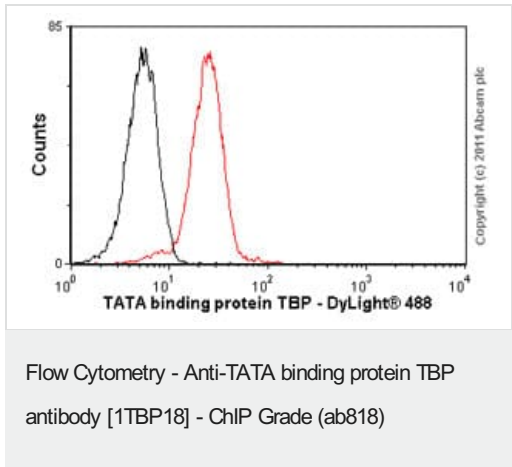
Nucleus.

图片



Chromatin was prepared from U2OS cells according to the Abcam X-ChIP protocol. Cells were fixed with formaldehyde for 10 min. The ChIP was performed with 25 µg of chromatin, 8 µg of ab818 (blue), and 20 µl of Protein A/G sepharose beads. No antibody was added to the beads control (yellow). The last wash was performed with final wash buffer containing 250 mM NaCl. The immunoprecipitated DNA was quantified by real time PCR (Taqman and sybr green approach). Primers and probes are located in the core promoter region of the genes.

This image was generated using the ascites version of the product.



Overlay histogram showing HeLa cells stained with ab818 (red line). The cells were fixed with 100% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab818, 1µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was Goat Anti-Mouse IgG H&L (DyLight<sup>®</sup> 488) preadsorbed ([ab96879](#)) secondary antibody at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was Mouse IgG1 [ICIGG1] ([ab91353](#), 2µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed.

This image was generated using the ascites version of the product.

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

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