

## TBP/TATA Box Binding Protein Rabbit pAb

CatalogNo: YN5458

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse

#### Applications

- WB, IHC, IF

#### MW

- 38kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:50-1:200

IF 1:50-200

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Recombinant Protein of TBP. AA range:94-194

**Specificity** The antibody detects endogenous TBP protein

### Target Information

**Gene name** TBP

**Protein Name** TATA-box-binding protein (TATA sequence-binding protein) (TATA-binding factor) (TATA-box factor) (Transcription initiation factor TFIID TBP subunit)

| Organism | Gene ID                | UniProt ID              |
|----------|------------------------|-------------------------|
| Human    | <a href="#">6908;</a>  | <a href="#">P20226;</a> |
| Mouse    | <a href="#">21374;</a> | <a href="#">P29037;</a> |

**Cellular Localization** Nucleus .

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

**Function** 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. ,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. ,polymorphism:The poly-Gln region of TBP is highly polymorphic (25 to 42 repeats) in normal individuals and is expanded to about 47-63 repeats in spinocerebellar ataxia 17 (SCA17) patients. ,similarity:Belongs to the TBP family. ,subunit:Belongs to the TFIID complex together with the TBP-associated factors (TAFs) . Component of the transcription factor SL1/TIFIB complex , composed of TBP and at least TAF1A , TAF1B TAF1C , and TAF3. Binds DNA as monomer. Interacts with TAFs , TFIIB , NCOA6 , DRAP1 , DR1 and ELF3. Interacts with SPIB , SNAPC1 , SNAPC2 and SNAPC4. Interacts with HIV-1 Tat. Interacts with UTF1 which acts as a coactivator of ATF2 transcriptional activity. Interacts with GPBP1 (By similarity) . Interacts with BRF2. ,tissue specificity:Widely expressed , with levels highest in the testis and ovary. ,

## Validation Data

## Contact information

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