

TATA Box Binding Protein Rabbit mAb

Catalog # AP76731

Product Information

| Application | WB, IHC-P, IHC-F, IP, ICC |
|-------------------|---------------------------|
| Primary Accession | <u>P20226</u> |
| Reactivity | Human, Mouse |
| Host | Rabbit |
| Clonality | Monoclonal Antibody |
| Calculated MW | 37698 |

Additional Information

| Gene ID | 6908 |
|-------------|---|
| Other Names | ТВР |
| Dilution | WB~~1/500-1/1000 IHC-P~~N/A IHC-F~~N/A IP~~1/20 ICC~~N/A |
| Format | 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA. |

Protein Information

| Name | ТВР |
|----------|---|
| Synonyms | GTF2D1, TF2D, TFIID {ECO:0000303 PubMed: |
| Function | The TFIID basal transcription factor complex plays a major role in the initiation of RNA polymerase II (Pol II)-dependent transcription (PubMed: <u>33795473</u>). TFIID recognizes and binds promoters with or without a TATA box via its subunit TBP, a TATA-box-binding protein, and promotes assembly of the pre-initiation complex (PIC) (PubMed: <u>2194289</u> , PubMed: <u>2363050</u> , PubMed: <u>2374612</u> , PubMed: <u>27193682</u> , PubMed: <u>33795473</u>). The TFIID complex consists of TBP and TBP-associated factors (TAFs), including TAF1, TAF2, TAF3, TAF4, TAF5, TAF6, TAF7, TAF8, TAF9, TAF10, TAF11, TAF12 and TAF13 (PubMed: <u>27007846</u> , PubMed: <u>33795473</u>). The TFIID complex structure can be divided into 3 modules TFIID-A, TFIID-B, and TFIID-C (PubMed: <u>33795473</u>). TBP forms the TFIID-A module together with TAF3 and TAF5 (PubMed: <u>33795473</u>). TBP is a general transcription factor that functions at the core of the TFIID complex (PubMed: <u>2194289</u> , PubMed: <u>2363050</u> , PubMed: <u>2374612</u> , PubMed: <u>27193682</u> , PubMed: <u>33795473</u> , PubMed: <u>9836642</u>). During assembly of the core PIC on the promoter, as part of TFIID, TBP binds to and also bends promoter DNA, irrespective of whether the promoter contains a TATA box (PubMed: <u>33795473</u>). Component of a BRF2-containing transcription factor complex that regulates transcription factor |

| | SL1/TIF-IB complex, which is involved in the assembly of the PIC during RNA polymerase I-dependent transcription (PubMed: <u>15970593</u>). The rate of PIC formation probably is primarily dependent on the rate of association of SL1 with the rDNA promoter (PubMed: <u>15970593</u>). SL1 is involved in stabilization of nucleolar transcription factor 1/UBTF on rDNA (PubMed: <u>15970593</u>). |
|-------------------|---|
| Cellular Location | Nucleus. |
| Tissue Location | Widely expressed, with levels highest in the testis and ovary. |

Images





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