

**GTF2B Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP14354a****Specification****GTF2B Antibody (N-term) Blocking Peptide - Product Information**

Primary Accession [Q00403](#)

**GTF2B Antibody (N-term) Blocking Peptide - Additional Information**

**Gene ID** 2959

**Other Names**

Transcription initiation factor IIB, General transcription factor TFIIB, S300-II, GTF2B, TF2B, TFIIB

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**GTF2B Antibody (N-term) Blocking Peptide - Protein Information**

**Name** GTF2B

**Synonyms** TF2B, TFIIB

**Function**

General transcription factor that plays a role in transcription initiation by RNA polymerase II (Pol II). Involved in the pre-initiation complex (PIC) formation and Pol II recruitment at promoter DNA (PubMed:<a href="http://www.uniprot.org/citations/1876184" target="\_blank">1876184</a>, PubMed:<a href="http://www.uniprot.org/citations/1946368" target="\_blank">1946368</a>, PubMed:<a href="http://www.uniprot.org/citations/1517211" target="\_blank">1517211</a>, PubMed:<a href="http://www.uniprot.org/citations/3818643" target="\_blank">3818643</a>, PubMed:<a href="http://www.uniprot.org/citations/3029109" target="\_blank">3029109</a>, PubMed:<a href="http://www.uniprot.org/citations/8413225" target="\_blank">8413225</a>, PubMed:<a href="http://www.uniprot.org/citations/8515820" target="\_blank">8515820</a>, PubMed:<a href="http://www.uniprot.org/citations/8516311" target="\_blank">8516311</a>, PubMed:<a href="http://www.uniprot.org/citations/8516312" target="\_blank">8516312</a>, PubMed:<a href="http://www.uniprot.org/citations/7601352" target="\_blank">7601352</a>, PubMed:<a href="http://www.uniprot.org/citations/9420329" target="\_blank">9420329</a>, PubMed:<a href="http://www.uniprot.org/citations/12931194" target="\_blank">12931194</a>, PubMed:<a href="http://www.uniprot.org/citations/27193682" target="\_blank">27193682</a>). Together with the TATA box-bound TBP forms the core initiation complex and provides a bridge

between TBP and the Pol II-TFIIF complex (PubMed:<a href="http://www.uniprot.org/citations/8504927" target="\_blank">8504927</a>, PubMed:<a href="http://www.uniprot.org/citations/8413225" target="\_blank">8413225</a>, PubMed:<a href="http://www.uniprot.org/citations/8515820" target="\_blank">8515820</a>, PubMed:<a href="http://www.uniprot.org/citations/8516311" target="\_blank">8516311</a>, PubMed:<a href="http://www.uniprot.org/citations/8516312" target="\_blank">8516312</a>). Released from the PIC early following the onset of transcription during the initiation and elongation transition and reassociates with TBP during the next transcription cycle (PubMed:<a href="http://www.uniprot.org/citations/7601352" target="\_blank">7601352</a>). Associates with chromatin to core promoter-specific regions (PubMed:<a href="http://www.uniprot.org/citations/12931194" target="\_blank">12931194</a>, PubMed:<a href="http://www.uniprot.org/citations/24441171" target="\_blank">24441171</a>). Binds to two distinct DNA core promoter consensus sequence elements in a TBP-independent manner; these IIB-recognition elements (BREs) are localized immediately upstream (BREu), 5'-[GC][GC][GA]CGCC-3', and downstream (BREd), 5'-[GA]T[TGA][TG][GT][TG]-3', of the TATA box element (PubMed:<a href="http://www.uniprot.org/citations/9420329" target="\_blank">9420329</a>, PubMed:<a href="http://www.uniprot.org/citations/16230532" target="\_blank">16230532</a>, PubMed:<a href="http://www.uniprot.org/citations/7675079" target="\_blank">7675079</a>, PubMed:<a href="http://www.uniprot.org/citations/10619841" target="\_blank">10619841</a>). Modulates transcription start site selection (PubMed:<a href="http://www.uniprot.org/citations/10318856" target="\_blank">10318856</a>). Exhibits also autoacetyltransferase activity that contributes to the activated transcription (PubMed:<a href="http://www.uniprot.org/citations/12931194" target="\_blank">12931194</a>).

### **Cellular Location**

Nucleus. Chromosome. Note=Non-acetylated form colocalizes with DNA in the G0/1, S and G2 phases of the cell cycle, but not during mitosis (PubMed:24441171). Acetylated form colocalizes at transcriptionally silent mitotic chromatids during mitosis at metaphase, anaphase, and telophase phases of the cell cycle (PubMed:24441171).

### **Tissue Location**

Expressed in the inner cell mass forming the embryoblast (PubMed:24441171). Not detected in cells from the outer thin layer trophoblast (at protein level) (PubMed:24441171)

### **GTF2B Antibody (N-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **GTF2B Antibody (N-term) Blocking Peptide - Images**

### **GTF2B Antibody (N-term) Blocking Peptide - Background**

This gene encodes the general transcription factor IIB, one of the ubiquitous factors required for transcription initiation by RNA polymerase II. The protein localizes to the nucleus where it forms a complex (the DAB complex) with transcription factors IID and IIA. Transcription factor IIB serves as a bridge between IID, the factor which initially recognizes the promoter sequence, and RNA polymerase II.

### **GTF2B Antibody (N-term) Blocking Peptide - References**

Wang, Y., et al. Curr. Biol. 20(6):548-553(2010) Thompson, N.E., et al. J. Biol. Chem. 284(37):24754-24766(2009) Gilman, B., et al. J. Biol. Chem. 284(14):9093-9098(2009) Vogt, C., et al. J. Virol. 82(22):11446-11453(2008) Elsby, L.M., et al. EMBO Rep. 7(9):898-903(2006)