

**GTF2B Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14354a****Specification**

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**GTF2B Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q00403</a>
Other Accession	<a href="#">P62916</a> , <a href="#">P62915</a> , <a href="#">Q4R3J5</a> , <a href="#">Q2KIN8</a> , <a href="#">NP_001505.1</a>
Reactivity	Human, Mouse
Predicted	Bovine, Monkey, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	34833
Antigen Region	42-71

**GTF2B Antibody (N-term) - Additional Information****Gene ID** 2959**Other Names**

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

**Target/Specificity**

This GTF2B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 42-71 amino acids from the N-terminal region of human GTF2B.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GTF2B Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**GTF2B Antibody (N-term) - 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:[12931194](#), PubMed:[1517211](#), PubMed:[1876184](#), PubMed:[1946368](#), PubMed:[27193682](#), PubMed:[3029109](#), PubMed:[3818643](#), PubMed:[7601352](#), PubMed:[8413225](#), PubMed:[8515820](#), PubMed:[8516311](#), PubMed:[8516312](#), PubMed:[9420329](#)). 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:[8413225](#), PubMed:[8504927](#), PubMed:[8515820](#), PubMed:[8516311](#), PubMed:[8516312](#)). 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:[7601352](#)). Associates with chromatin to core promoter-specific regions (PubMed:[12931194](#), PubMed:[24441171](#)). 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[GA][TG][GT][TG][TG]-3', of the TATA box element (PubMed:[10619841](#), PubMed:[16230532](#), PubMed:[7675079](#), PubMed:[9420329](#)). Modulates transcription start site selection (PubMed:[10318856](#)). Also exhibits autoacetyltransferase activity that contributes to the activated transcription (PubMed:[12931194](#)).

**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).

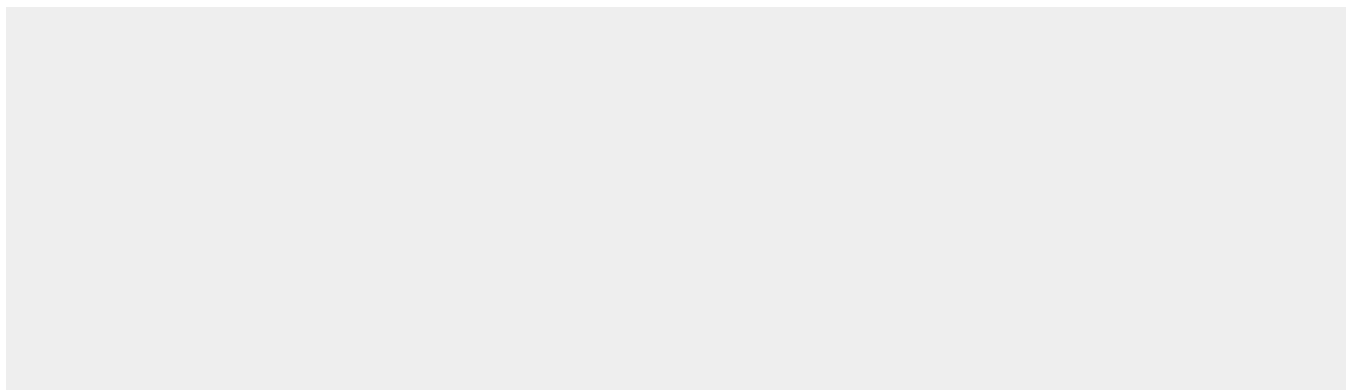
**Tissue Location**

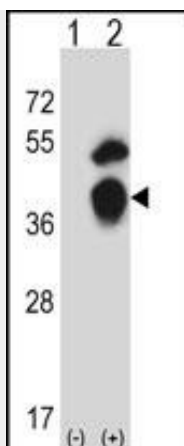
Expressed in the inner cell mass forming the embryoblast (PubMed:24441171). Not detected in cells from the outer thin layer trophoblast (at protein level) (PubMed:24441171)

**GTF2B Antibody (N-term) - Protocols**

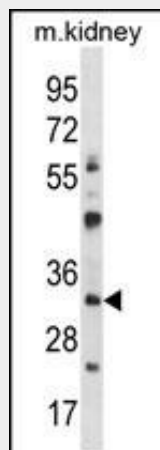
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**GTF2B Antibody (N-term) - Images**



Western blot analysis of GTF2B (arrow) using rabbit polyclonal GTF2B Antibody (N-term) (Cat. #AP14354a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the GTF2B gene.



GTF2B Antibody (N-term) (Cat. #AP14354a) western blot analysis in mouse kidney tissue lysates (35ug/lane). This demonstrates the GTF2B antibody detected the GTF2B protein (arrow).

#### **GTF2B Antibody (N-term) - 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) - 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)