10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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:1876184, PubMed:1946368, PubMed:1517211, PubMed:3818643, PubMed:3029109, PubMed:8413225, PubMed:8515820, PubMed:8516311, PubMed:8516312, PubMed:7601352, PubMed:9420329, PubMed:12931194, PubMed:27193682). 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:8504927, PubMed:8413225, 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[TGA][TG][GT][TG][TG]-3', of the TATA box element (PubMed:9420329, PubMed:16230532, PubMed:7675079, PubMed:10619841). Modulates transcription start site selection (PubMed:10318856). Exhibits also 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) 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 initiationby RNA polymerase II. The protein localizes to the nucleus where itforms a complex (the DAB complex) with transcription factors IIDand IIA. Transcription factor IIB serves as a bridge between IID,the factor which initially recognizes the promoter sequence, andRNA 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)