

## Anti-TF2B Rabbit Monoclonal Antibody Catalog # ABO15809

### Specification

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#### Anti-TF2B Rabbit Monoclonal Antibody - Product Information

Application	WB, IP
Primary Accession	<a href="#">Q00403</a>
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

#### Description

Anti-TF2B Rabbit Monoclonal Antibody . Tested in WB, IP applications. This antibody reacts with Human, Mouse, Rat.

#### Anti-TF2B Rabbit Monoclonal Antibody - Additional Information

Gene ID 2959

#### Other Names

Transcription initiation factor IIB, 2.3.1.48, General transcription factor TFIIB, S300-II, GTF2B, TF2B, TFIIB

#### Calculated MW

31 kDa KDa

#### Application Details

WB 1:500-1:2000<br>IP 1:50

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human TF2B

#### Purification

Affinity-chromatography

#### Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

#### Anti-TF2B Rabbit Monoclonal Antibody - 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/12931194" target="\_blank">12931194</a>, PubMed:<a href="http://www.uniprot.org/citations/1517211" target="\_blank">1517211</a>, 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/27193682" target="\_blank">27193682</a>, PubMed:<a href="http://www.uniprot.org/citations/3029109" target="\_blank">3029109</a>, PubMed:<a href="http://www.uniprot.org/citations/3818643" target="\_blank">3818643</a>, PubMed:<a href="http://www.uniprot.org/citations/7601352" target="\_blank">7601352</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/9420329" target="\_blank">9420329</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/8413225" target="\_blank">8413225</a>, PubMed:<a href="http://www.uniprot.org/citations/8504927" target="\_blank">8504927</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][TG]-3', of the TATA box element (PubMed:<a href="http://www.uniprot.org/citations/10619841" target="\_blank">10619841</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/9420329" target="\_blank">9420329</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

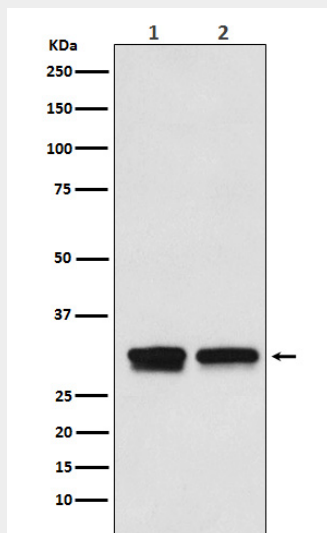
Expressed in the inner cell mass forming the embryoblast (PubMed:24441171). Not detected in cells from the outer thin layer trophoblast (at protein level) (PubMed:24441171)

## Anti-TF2B Rabbit Monoclonal Antibody - 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](#)

#### Anti-TF2B Rabbit Monoclonal Antibody - Images



Western blot analysis of TFIIIB expression in (1) HepG2 cell lysate; (2) RAW264.7 cell lysate.