

**GTF2H2 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2794a****Specification**

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**GTF2H2 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q13888](#)**GTF2H2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 2966**Other Names**

General transcription factor IIH subunit 2, Basic transcription factor 2 44 kDa subunit, BTF2 p44, General transcription factor IIH polypeptide 2, TFIIH basal transcription factor complex p44 subunit, GTF2H2, BTF2P44

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2794a](/products/AP2794a) was selected from the N-term region of human GTF2H2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**GTF2H2 Antibody (N-term) Blocking Peptide - Protein Information****Name** GTF2H2**Synonyms** BTF2P44**Function**

Component of the general transcription and DNA repair factor IIH (TFIIH) core complex, which is involved in general and transcription-coupled nucleotide excision repair (NER) of damaged DNA and, when complexed to CAK, in RNA transcription by RNA polymerase II. In NER, TFIIH acts by opening DNA around the lesion to allow the excision of the damaged oligonucleotide and its replacement by a new DNA fragment. In transcription, TFIIH has an essential role in transcription initiation. When the pre-initiation complex (PIC) has been established, TFIIH is required for promoter opening and promoter escape. Phosphorylation of the C-terminal tail (CTD) of the largest subunit of RNA polymerase II by the kinase module CAK controls the initiation of transcription. The

N-terminus of GTF2H2 interacts with and regulates XPD whereas an intact C-terminus is required for a successful escape of RNAP II from the promoter.

**Cellular Location**

Nucleus.

**Tissue Location**

Widely expressed, with higher expression in skeletal muscle.

**GTF2H2 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**GTF2H2 Antibody (N-term) Blocking Peptide - Images****GTF2H2 Antibody (N-term) Blocking Peptide - Background**

GTF2H2 is the 44 kDa subunit of RNA polymerase II transcription initiation factor IIH which is involved in basal transcription and nucleotide excision repair.

**GTF2H2 Antibody (N-term) Blocking Peptide - References**

Ren, P., Am. J. Respir. Crit. Care Med. 175 (11), 1151-1157 (2007) Kellenberger, E., J. Biol. Chem. 280 (21), 20785-20792 (2005)