

**ERCC3 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17749a****Specification**

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**ERCC3 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P19447](#)**ERCC3 Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 2071

**Other Names**

TFIIH basal transcription factor complex helicase XPB subunit, Basic transcription factor 2 89 kDa subunit, BTF2 p89, DNA excision repair protein ERCC-3, DNA repair protein complementing XP-B cells, TFIIH basal transcription factor complex 89 kDa subunit, TFIIH 89 kDa subunit, TFIIH p89, Xeroderma pigmentosum group B-complementing protein, ERCC3, XPB, XPBC

**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.

**ERCC3 Antibody (N-term) Blocking Peptide - Protein Information**

Name ERCC3

Synonyms XPB, XPBC

**Function**

ATP-dependent 3'-5' DNA helicase, 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. The ATPase activity of XPB/ERCC3, but not its helicase activity, is required for DNA opening. In transcription, TFIIH has an essential role in transcription initiation (PubMed:<a href="http://www.uniprot.org/citations/8157004" target="\_blank">8157004</a>, PubMed:<a href="http://www.uniprot.org/citations/30894545" target="\_blank">30894545</a>). When the pre-initiation complex (PIC) has been established, TFIIH is required for promoter opening and promoter escape (PubMed:<a href="http://www.uniprot.org/citations/8157004" target="\_blank">8157004</a>). The ATP-dependent helicase activity of XPB/ERCC3 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.

**Cellular Location**

Nucleus.

**ERCC3 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**ERCC3 Antibody (N-term) Blocking Peptide - Images****ERCC3 Antibody (N-term) Blocking Peptide - Background**

ERCC3 is an ATP-dependent DNA helicase that functions in nucleotide excision repair and complements xeroderma pigmentosum group B mutations. It also is the 89 kDa subunit of basal transcription factor 2 (TFIIH) and thus functions in class II transcription.

**ERCC3 Antibody (N-term) Blocking Peptide - References**

Briggs, F.B., et al. Am. J. Epidemiol. 172(2):217-224(2010) Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010) Monsees, G.M., et al. Breast Cancer Res. Treat. (2010) In press :Arab, H.H., et al. PLoS ONE 5 (6), E11007 (2010) :Weber, A., et al. Cell. Oncol. 32 (1-2), 121-130 (2010) :