

Anti-ERCC3 / XPB Antibody

Rabbit Anti Human Polyclonal Antibody Catalog # ALS18162

Specification

Anti-ERCC3 / XPB Antibody - Product Information

Application WB, IHC-P Primary Accession P19447

Predicted Human, Mouse, Rat

Host Rabbit Clonality Polyclonal

Isotype IgG
Calculated MW 89278

Anti-ERCC3 / XPB Antibody - Additional Information

Gene ID 2071

Alias Symbol ERCC3

Other Names

ERCC3, BTF2, GTF2H, RAD25, TFIIH p89, TFIIH, XPB, BTF2 p89, XPBC, TFIIH 89 kDa subunit

Target/Specificity Human ERCC3 / XPB

Reconstitution & Storage

Affinity purified

Precautions

Anti-ERCC3 / XPB Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-ERCC3 / XPB Antibody - Protein Information

Name ERCC3

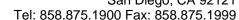
Synonyms XPB, XPBC

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

 $href="http://www.uniprot.org/citations/8157004" target="_blank">8157004, PubMed:30894545). When the$







pre-initiation complex (PIC) has been established, TFIIH is required for promoter opening and promoter escape (PubMed: 8157004). 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.

Anti-ERCC3 / XPB Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-ERCC3 / XPB Antibody - Images