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Product datasheet for TA369739

XPB (ERCC3) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1000-5000 WB positive control: Hela cell lysate IHC: 50-200 Positive control: Human colorectal cancer Predicted cell location: Nucleus
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human ERCC3
Formulation:	pH7.4 PBS, 0.05% NaN3, 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C.
Stability:	1 year
Predicted Protein Size:	89 kDa
Gene Name:	ERCC excision repair 3, TFIIH core complex helicase subunit
Database Link:	Entrez Gene 2071 Human P19447

View online »

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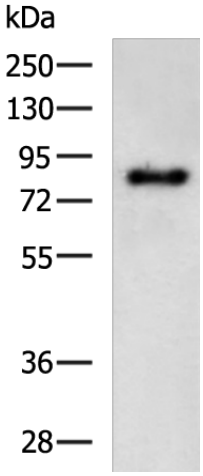
Background: ATP-dependent 3'-5' DNA helicase, component of the general transcription and DNA repair factor IIH (TFIIH) core complex, which is involved in general and transcription-coupled nucleotide excision repair (NER) of damaged DNA and, when complexed to CAK, in RNA transcription by RNA polymerase 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: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.

Synonyms: BTF2; BTF2-p89; GTF2H; RAD25; TFIIH; XPB; XPBC

Product images:



Gel: 8%SDS-PAGE
Lysate: 40 µg
Lane: Hela cell lysate
Primary antibody: TA369739 (ERCC3 Antibody) at dilution 1/1000
Secondary antibody: Goat anti rabbit IgG at 1/5000 dilution
Exposure time: 3 seconds

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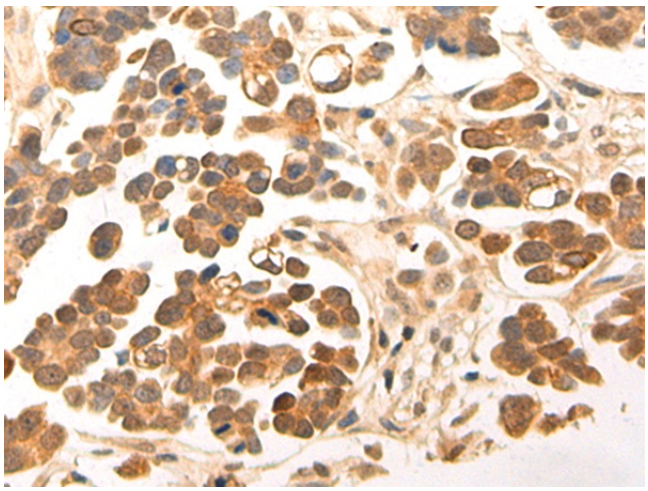
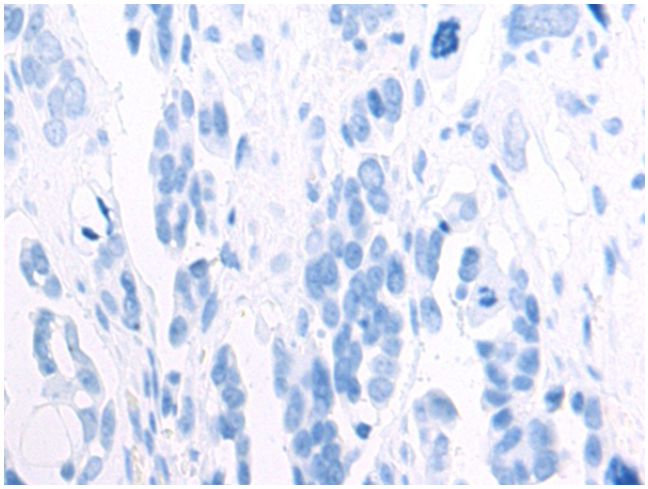


Immunohistochemistry of paraffin-embedded Human colorectal cancer tissue using TA369739 (ERCC3 Antibody) at dilution 1/70 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human colorectal cancer tissue using TA369739 (ERCC3 Antibody) at dilution 1/70, treated with fusion protein. (Original magnification: ×200)

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