

## Product datasheet for **TA323737**

### **XPB (ERCC3) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500-2000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to C terminal 270 amino acids of human excision repair cross-complementing rodent repair deficiency, complementation group 3
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	89 kDa
Gene Name:	ERCC excision repair 3, TFIIH core complex helicase subunit
Database Link:	<a href="#">NP_000113</a> <a href="#">Entrez Gene 13872 Mouse</a> <a href="#">Entrez Gene 291703 Rat</a> <a href="#">Entrez Gene 2071 Human</a> <a href="#">P19447</a>



[View online »](#)

**Background:**

XPB and XPD are ATPase/helicase subunits of the TFIIH complex that are involved in nucleotide excision repair (NER) to remove lesions and photoproducts generated by UV light. XPB and XPD are 3'-5' and 5'-3' DNA helicases, respectively, that play a role in opening of the DNA damage site to facilitate repair. XPB and XPD both play an important role in maintaining genomic stability, and researchers have linked mutations of these proteins to Xeroderma Pigmentosum (XP) and Trichothiodystrophy (TTD). XP patients have abnormalities in skin pigmentation and are highly susceptible to skin cancers, while TTD patients exhibit symptoms such as brittle hair, neurological abnormalities, and mild photosensitivity. In addition to their role in NER, XPB and XPD are involved in transcription initiation as part of the TFIIH core complex. The helicase activity of XPB unwinds DNA around the transcription start site to facilitate RNA polymerase II promoter clearance and initiation of transcription. XPD plays a structural role linking core TFIIH components with the cdk-activating kinase (CAK) complex that phosphorylates the C-terminus of the largest subunit of RNA polymerase II, leading to transcription initiation.

**Synonyms:**

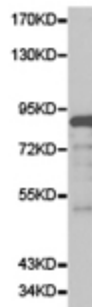
BTF2; GTF2H; RAD25; TFIIH; TTD2; XPB

**Protein Families:**

Druggable Genome, Transcription Factors

**Protein Pathways:**

Nucleotide excision repair

**Product images:**

Predicted band size: 89 kDa. Positive control: COLO320 cell lysate. Recommended dilution: 1/500-2000. (Gel: 8%SDS-PAGE Lysate: 40 ug Primary antibody: 1/500 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 1 minute)