

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat XPB in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human XPB Met1-Lys375 Accession # P19447
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

XPB (Xeroderma pigmentosum group B complementing protein; also ERCC3 and TFIIH 89 kDa subunit) is an 86 kDa, nuclear member of the RAD25/XPB subfamily, helicase family of proteins. It is expressed in multiple cell types, including neurons, fibroblasts and keratinocytes. XPB is part of the 10 subunit TFIIH complex. As such, it appears to participate in both nucleotide excision repair (NER) and transcription initiation from RNA polymerase II promoters. During NER, XPB utilizes an intrinsic ATPase activity to resolve nucleotide excision and repair. Human XPB is 782 amino acids (aa) in length. It contains an NLS (aa 6-18), multiple acidic-rich regions, an ATPase region (aa 327-488) and one helicase domain (aa 542-702). Over aa 1-375, human XPB shares 93% aa identity with mouse XPB.

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