

**XPA Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51614****Specification**

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**XPA Antibody - Product Information**

Application	WB, IHC-P, E
Primary Accession	<a href="#">P23025</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40 KDa

**XPA Antibody - Additional Information****Gene ID** 7507**Other Names**

DNA repair protein complementing XP-A cells, Xeroderma pigmentosum group A-complementing protein, XPA, XPAC

**Dilution**

WB~~1:1000  
IHC-P~~N/A  
E~~N/A

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**XPA Antibody - Protein Information****Name** XPA**Synonyms** XPAC**Function**

Involved in DNA nucleotide excision repair (NER). Initiates repair by binding to damaged sites with various affinities, depending on the photoproduct and the transcriptional state of the region. Required for UV-induced CHEK1 phosphorylation and the recruitment of CEP164 to cyclobutane pyrimidine dimers (CPD), sites of DNA damage after UV irradiation (PubMed:<a href="http://www.uniprot.org/citations/19197159" target="\_blank">19197159</a>). During NER stimulates the 5'-3' helicase activity of XPD/ERCC2 and the DNA translocase activity of XPB/ERCC3 (PubMed:<a href="http://www.uniprot.org/citations/31253769" target="\_blank">31253769</a>). Connects XPD/ERCC2 and XPB/ERCC3 during NER, retaining DNA near the XPB/ERCC3 active site, and stabilizing the complex in a different conformation than in transcribing TFIIH (PubMed:<a

href="http://www.uniprot.org/citations/31253769" target="\_blank">31253769</a>).

**Cellular Location**

Nucleus

**Tissue Location**

Expressed in various cell lines and in skin fibroblasts.

**XPA Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**XPA Antibody - Images****XPA Antibody - Background**

Involved in DNA excision repair. Initiates repair by binding to damaged sites with various affinities, depending on the photoproduct and the transcriptional state of the region. Required for UV-induced CHEK1 phosphorylation and the recruitment of CEP164 to cyclobutane pyrimidine dimers (CPD), sites of DNA damage after UV irradiation.

**XPA Antibody - References**

Tanaka K., et al. Nature 348:73-76(1990).  
Kalnine N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.  
Humphray S.J., et al. Nature 429:369-374(2004).  
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.  
Satokata I., et al. Gene 136:345-348(1993).