

#### XPA Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP13836B

#### Specification

## XPA Antibody (C-term) - Product Information

WB,E
<u>P23025</u>
<u>NP_000371.1</u>
Human
Rabbit
Polyclonal
Rabbit IgG
31368
185-213

#### XPA Antibody (C-term) - Additional Information

Gene ID 7507

#### **Other Names**

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

#### Target/Specificity

This XPA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 185-213 amino acids from the C-terminal region of human XPA.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

XPA Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## XPA Antibody (C-term) - 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 dimmers (CPD), sites of DNA damage after UV irradiation (PubMed:<u>19197159</u>). During NER stimulates the 5'-3' helicase activity of XPD/ERCC2 and the DNA translocase activity of XPB/ERCC3 (PubMed:<u>31253769</u>). 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:<u>31253769</u>).

Cellular Location Nucleus

Tissue Location

Expressed in various cell lines and in skin fibroblasts.

## **XPA Antibody (C-term) - Protocols**

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

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

## XPA Antibody (C-term) - Images



Western blot analysis of XPA (arrow) using rabbit polyclonal XPA Antibody (C-term) (Cat. #AP13836b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the XPA gene.





XPA Antibody (C-term) (Cat. #AP13836b) western blot analysis in WiDr cell line lysates (35ug/lane).This demonstrates the XPA antibody detected the XPA protein (arrow).



XPA Antibody (C-term) (Cat. #AP13836b) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane).This demonstrates the XPA antibody detected the XPA protein (arrow).

## XPA Antibody (C-term) - Background

This gene encodes a zinc finger protein involved in DNA excision repair. The encoded protein is part of the NER (nucleotide excision repair) complext which is responsible for repair of UV radiation-induced photoproducts and DNA adducts induced by chemical carcinogens. Mutations in this gene are associated with xeroderma pigmentosum complementation group A. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq].

## XPA Antibody (C-term) - References

Palli, D., et al. Mutagenesis 25(6):569-575(2010) Fan, W., et al. Mol. Cell 39(2):247-258(2010) Ho-Pun-Cheung, A., et al. Pharmacogenomics J. (2010) In press : Hsieh, Y.Y., et al. Anticancer Res. 30(6):2203-2208(2010) Jelonek, K., et al. J. Appl. Genet. 51(3):343-352(2010)