

XPA Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP8784b**Specification**

XPA Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P23025](#)**XPA Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 7507**Other Names**

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

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8784b](/products/AP8784b) was selected from the C-term region of human XPA. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

XPA Antibody (C-term) Blocking Peptide - 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: [19197159](http://www.uniprot.org/citations/19197159)). During NER stimulates the 5'-3' helicase activity of XPD/ERCC2 and the DNA translocase activity of XPB/ERCC3 (PubMed: [31253769](http://www.uniprot.org/citations/31253769)). 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: [31253769](#)).

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

Cellular Location

Nucleus

Tissue Location

Expressed in various cell lines and in skin fibroblasts.

XPA Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

XPA Antibody (C-term) Blocking Peptide - Images**XPA Antibody (C-term) Blocking Peptide - Background**

XPA is involved in DNA excision repair. It initiates repair by binding to damaged sites with various affinities, depending on the photoproduct and the transcriptional state of the region. This protein is required for UV-induced CHK1 phosphorylation and the recruitment of CEP164 to cyclobutane pyrimidine dimers (CPD), sites of DNA damage after UV irradiation.

XPA Antibody (C-term) Blocking Peptide - References

States J.C., et.al., Hum. Mutat. 12:103-113(1998).