

XPA Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51614

Product Information

Application	WB, IHC-P
Primary Accession	P23025
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31368

Additional Information

Gene ID	7507
Other Names	DNA repair protein complementing XP-A cells, Xeroderma pigmentosum group A-complementing protein, XPA, XPAC
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human XPA. The exact sequence is proprietary.
Dilution	WB~~1:1000 IHC-P~~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

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: 19197159). During NER stimulates the 5'-3' helicase activity of XPD/ERCC2 and the DNA translocase activity of XPB/ERCC3 (PubMed: 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).
Cellular Location	Nucleus

Tissue Location

Expressed in various cell lines and in skin fibroblasts.

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.

References

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Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.

Humphray S.J.,et al.Nature 429:369-374(2004).

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Satokata I.,et al.Gene 136:345-348(1993).

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