

Product datasheet

Anti-XPA antibody ab180618

4 Images

Overview

Product name	Anti-XPA antibody
Description	Rabbit polyclonal to XPA
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, ICC/IF
Species reactivity	Reacts with: Rat, Human
Immunogen	Recombinant full length protein corresponding to Human XPA aa 1-273.

Sequence:

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MAAADGALPEAAALEQPAELPASVRASIERKRQRALMLR
QARLAARPYSA
TAAAATGGMANVKAAPKIIDTGGGFILEEEEEEEQKIGKV
V
HQP GPVMEF
DYVICEECGKEFMDSYLMNHFDLPTCDNCRDADDKHKLIT
KTEAKQEYLL
KDCDLEKREPPLKFMKKNPHHSQWGMKLYLKLQVKRS
LEVWGSQEAL
EEAKEVRQENREKMKQKKFDKKVKELRRAVRSSVWKRE
TVHQHEYGPEE NLEDDMYRKTCTMCGHELTYEKM
    
```

Database link: [P23025](#)

 [Run BLAST with](#)

 [Run BLAST with](#)

Positive control HEK293 cell line extract.

General notes The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form Liquid

Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, 49% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

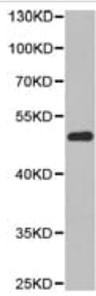
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab180618 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/50 - 1/200. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/500 - 1/2000. Predicted molecular weight: 31 kDa.
ICC/IF		1/50 - 1/100.

Target

Function	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 CHK1 phosphorylation and the recruitment of CEP164 to cyclobutane pyrimidine dimmers (CPD), sites of DNA damage after UV irradiation.
Tissue specificity	Expressed in various cell lines and in skin fibroblasts.
Involvement in disease	Defects in XPA are a cause of xeroderma pigmentosum complementation group A (XP-A) [MIM:278700]; also known as xeroderma pigmentosum type 1 (XP1). XP-A is a rare human autosomal recessive disease characterized by solar sensitivity, high predisposition for developing cancers on areas exposed to sunlight and, in some cases, neurological abnormalities. Group A patients show the most severe skin symptoms and progressive neurological disorders.
Sequence similarities	Belongs to the XPA family.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR. Ubiquitinated by HERC2 leading to degradation by the proteasome.
Cellular localization	Nucleus.

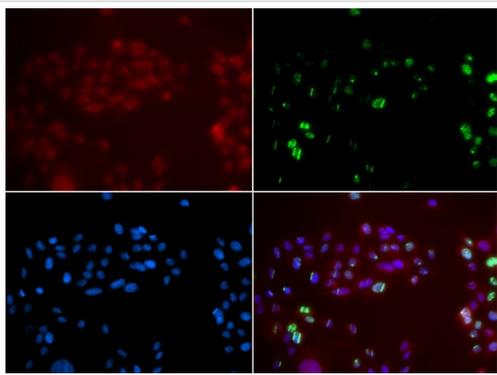
Images



Western blot - Anti-XPA antibody (ab180618)

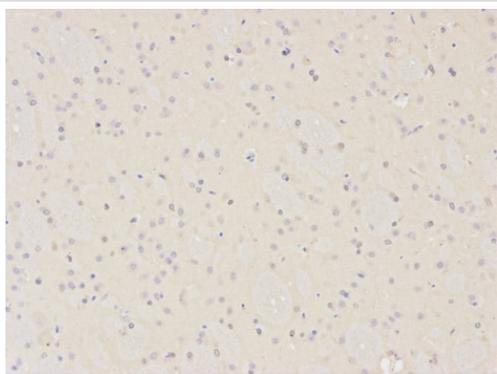
Anti-XPA antibody (ab180618) at 1/500 dilution + HEK293 cell line extract

Predicted band size: 31 kDa



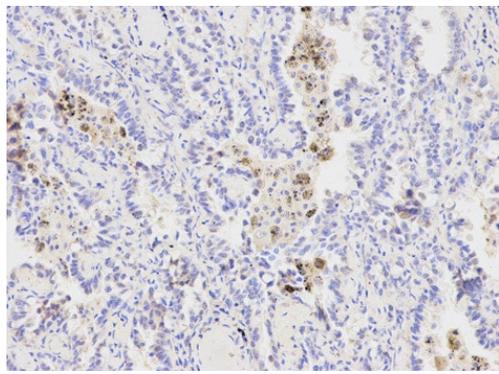
Immunocytochemistry/ Immunofluorescence - Anti-XPA antibody (ab180618)

Immunofluorescence analysis of GFP-RNF168 transgenic U2OS cell using ab180618 Green: GFP-RNF168 fusion protein expression for DNA damage marker. Blue: DAPI for nuclear staining. RNF168(GFP) can be used to mark cells damaged by UV-A laser for they always gather around DNA damage region.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-XPA antibody (ab180618)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat brain tissue labelling XPA with ab180618 at 1/200. Magnification: 200x.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-XPA antibody (ab180618)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lung cancer tissue labelling XPA with ab180618 at 1/200. Magnification: 200x.

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