

Anti-XPG antibody ab224815

[1 References](#) [3 Images](#)

Overview

Product name	Anti-XPG antibody
Description	Rabbit polyclonal to XPG
Host species	Rabbit
Tested applications	Suitable for: IHC-P, IP, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human XPG aa 650-700. The exact sequence is proprietary. P28715 Database link: NP_000114.2
Positive control	WB: HeLa whole cell lysate (ab150035). IP: HeLa whole cell lysate (ab150035). IHC-P: Human ovarian carcinoma tissue.
General notes	<p>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.</p> <p>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</p>

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: 6.8 Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab224815 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		1/100 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IP		Use at 2-5 µg/mg of lysate.
WB		1/2000 - 1/10000. Predicted molecular weight: 133 kDa.

Target

Function

Single-stranded structure-specific DNA endonuclease involved in DNA excision repair. Makes the 3' incision in DNA nucleotide excision repair (NER). Acts as a cofactor for a DNA glycosylase that removes oxidized pyrimidines from DNA. May also be involved in transcription-coupled repair of this kind of damage, in transcription by RNA polymerase II, and perhaps in other processes too.

Involvement in disease

Defects in ERCC5 are the cause of xeroderma pigmentosum complementation group G (XP-G) [MIM:278780]; also known as xeroderma pigmentosum VII (XP7). Xeroderma pigmentosum is an autosomal recessive pigmentary skin disorder characterized by solar hypersensitivity of the skin, high predisposition for developing cancers on areas exposed to sunlight and, in some cases, neurological abnormalities. Some XP-G patients present features of Cockayne syndrome, including dwarfism, sensorineural deafness, microcephaly, mental retardation, pigmentary retinopathy, ataxia, decreased nerve conduction velocities.

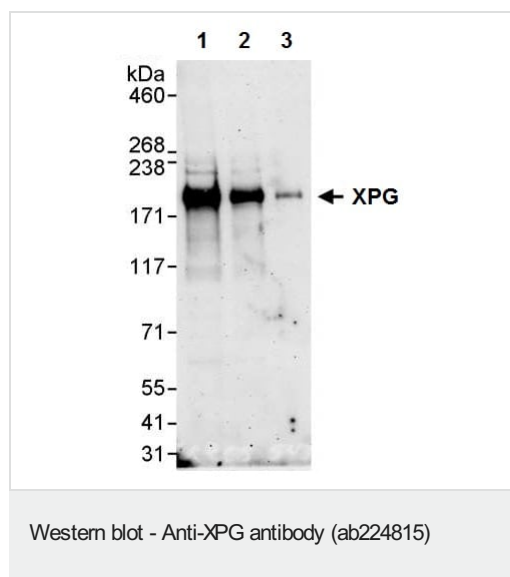
Sequence similarities

Belongs to the XPG/RAD2 endonuclease family. XPG subfamily.

Cellular localization

Nucleus.

Images



All lanes : Anti-XPG antibody (ab224815) at 0.04 µg/ml

Lane 1 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 50 µg

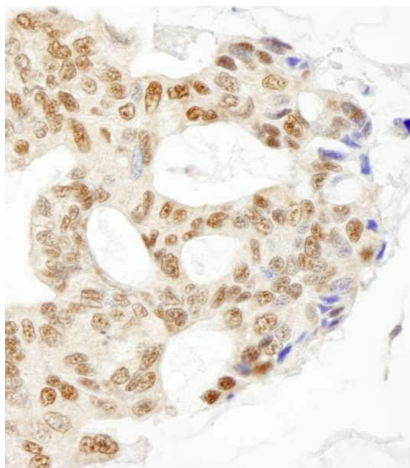
Lane 2 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 15 µg

Lane 3 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 5 µg

Developed using the ECL technique.

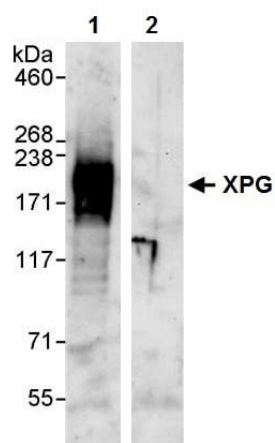
Predicted band size: 133 kDa

Exposure time: 3 minutes



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-XPG antibody (ab224815)

Formalin-fixed, paraffin-embedded human ovarian carcinoma tissue stained for XPG using ab224815 at 1/200 dilution in immunohistochemical analysis. Detection: DAB staining.



Immunoprecipitation - Anti-XPG antibody (ab224815)

XPG was immunoprecipitated from HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate (1 mg for IP, 20% of IP loaded) with ab224815 at 3 µg/mg lysate. Western blot was performed from the immunoprecipitate using ab224815 at 1 µg/ml.

Lane 1: ab224815 IP in HeLa whole cell lysate.

Lane 2: Control IgG IP in HeLa whole cell lysate.

Detection: Chemiluminescence with exposure time of 30 seconds.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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