For Research Use Only

# XPG Polyclonal antibody

Catalog Number:11331-1-AP Featured Product 14 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

## Basic Information

Catalog Number:
11331-1-AP

Size:
350 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1874

GenBank Accession Number:
BC031522

GeneID (NCBI):
2073

UNIPROT ID:
P28715

Full Name:
excision repair cross-complementing rodent repair deficiency, complementation group 5

Calculated MW:
1186 aa, 133 kDa

Observed MW:
200 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:3000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IF/ICC 1:20-1:200

## Applications

Tested Applications:
WB, IF/ICC, IP, ELISA

Cited Applications:
WB, IF

Species Specificity:
human

Cited Species:
human, mouse

Positive Controls:

WB : HeLa cells, HepG2 cells, Daudi cells

IP : HeLa cells,

IF/ICC : HeLa cells,

## Background Information

The human genes correcting DNA repair defects are termed excision-repair cross-complementing or ERCC genes. The ERCC5 gene corrects the excision repair deficiency of Chinese hamster ovary cell line UV135 of complementation group 5. The human ERCC5 gene product is a structure-specific endonuclease required for making the 3-prime incision during DNA nucleotide excision-repair (NER). It also plays an important role in regulating DNA excision repair, removal of bulky lesions caused by environmental chemicals or UV light [PMID:22815677]. The calculated molecular weight of ERCC5 is 133 kDa, but the modified ERCC5 protein is about 200 kDa.

## Notable Publications

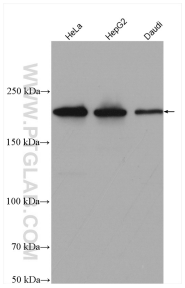
| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Takaaki Yasuhara | 30245011 | Cell | WB |
| Li-Ming Tan | 31772670 | J Cancer | WB |
| Pallavi Rajput | 27156884 | Biochim Biophys Acta | WB |

## Storage

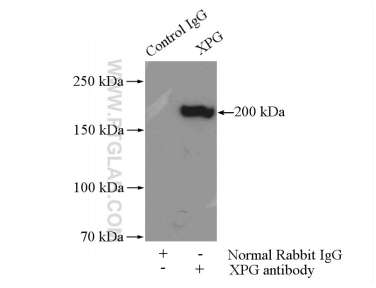
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

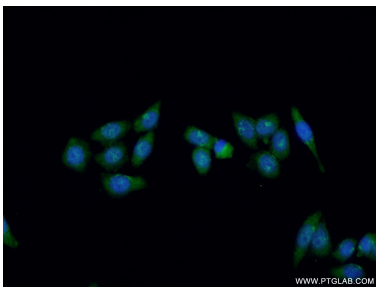
## Selected Validation Data




Various lysates were subjected to SDS PAGE followed by western blot with 11331-1-AP (XPG antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.




IP result of anti-XPG (IP:11331-1-AP, 4ug; Detection:11331-1-AP 1:500) with HeLa cells lysate 1200ug.




Immunofluorescent analysis of HeLa cells using 11331-1-AP (XPG antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).