

For Research Use Only

XPG Polyclonal antibody

Catalog Number: 11331-1-AP

Featured Product

14 Publications



Basic Information

Catalog Number:

11331-1-AP

Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 187 ug/ml by Bradford method using BSA as the standard;

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

*** 20ul sizes contain 0.1% BSA

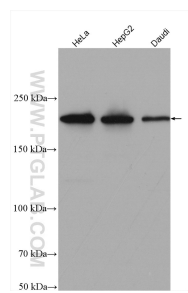
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

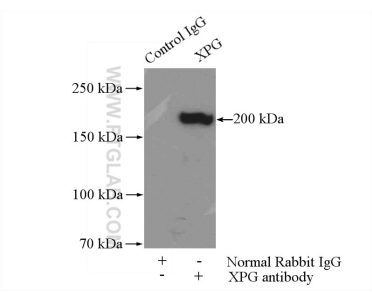
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

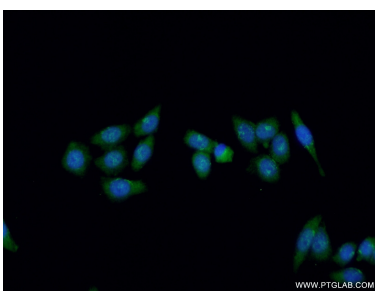
Selected Validation Data



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).