

For Research Use Only

XPA Polyclonal antibody

Catalog Number: 16462-1-AP

8 Publications



Basic Information

Catalog Number:

16462-1-AP

Size:

150ul, Concentration: 220 ug/ml by Nanodrop and 220 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9536

GenBank Accession Number:

BC014965

GeneID (NCBI):

7507

UNIPROT ID:

P23025

Full Name:

xeroderma pigmentosum, complementation group A

Calculated MW:

374aa, 42 kDa; 273aa, 31 kDa

Observed MW:

40 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:200-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse, zebrafish

Positive Controls:

WB : L02 cells, HeLa cells, MCF-7 cells

IP : L02 cells,

IF/ICC : HepG2 cells,

Background Information

XPA, also named as DNA repair protein complementing XP-A cells, is a 272 amino acid protein, which belongs to the XPA family. XPA is expressed in various cell lines and in skin fibroblasts. XPA is 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. XPA is required for UV-induced CHEK1 phosphorylation and the recruitment of CEP164 to cyclobutane pyrimidine dimers (CPD), sites of DNA damage after UV irradiation. The calculated molecular weight of XPA is 31 kDa, but modified XPA protein is about 40 kDa (PMID: 17848622).

Notable Publications

Author	Pubmed ID	Journal	Application
Li-Ming Tan	31772670	J Cancer	WB
Zhe Yang	36229075	Genes Dev	WB
Jiixin Chen	36415059	Adv Healthc Mater	WB, IF

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

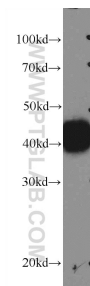
For technical support and original validation data for this product please contact:

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

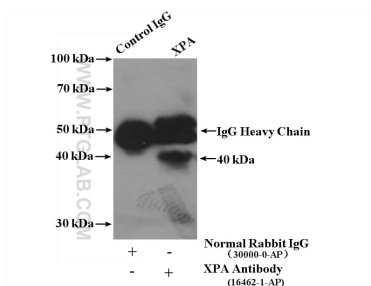
E: proteintech@ptglab.com
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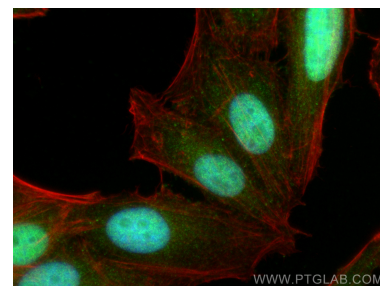
Selected Validation Data



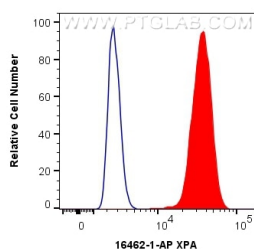
L02 cells were subjected to SDS PAGE followed by western blot with 16462-1-AP (XPA Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



IP result of anti-XPA (IP:16462-1-AP, 4ug; Detection:16462-1-AP 1:300) with L02 cells lysate 3000 ug.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using XPA antibody (16462-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human XPA (16462-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).