

For Research Use Only

# DDB1 Polyclonal antibody

Catalog Number: 11380-1-AP

Featured Product

12 Publications



## Basic Information

### Catalog Number:

11380-1-AP

### Concentration:

450 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1901

### GenBank Accession Number:

BC011686

### GeneID (NCBI):

1642

### UNIPROT ID:

Q16531

### Full Name:

damage-specific DNA binding protein

1, 127kDa

### Calculated MW:

1140 aa, 127 kDa

### Observed MW:

127 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:16000

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

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IF, IP, CoIP, ChIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** HCT 116 cells, mouse testis tissue, human kidney tissue, human placenta tissue, human brain tissue, rat testis tissue, HeLa cells, HepG2 cells, Jurkat cells, MCF-7 cells, MDA-MB-231 cells, C2C12 cells, NIH/3T3 cells

**IP:** Jurkat cells,

**IHC:** human colon cancer tissue, human colon cancer

## Background Information

DDB1, also named as XAP1, XPCe, DDBa and XPE-BF, belongs to the DDB1 family. It is required for DNA repair. DDB1 binds to DDB2 to form the UV-damaged DNA-binding protein complex (the UV-DDB complex). The UV-DDB complex may recognize UV-induced DNA damage and recruit proteins of the nucleotide excision repair pathway (the NER pathway) to initiate DNA repair. The functional specificity of the DCX E3 ubiquitin-protein ligase complex is determined by the variable substrate recognition component recruited by DDB1. This antibody is specific to DDB1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Di Chen	31181401	iScience	CoIP
Tang Siwei S	23472066	PLoS One	WB
Xiaoyan Hu	30718461	Cell Death Dis	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:

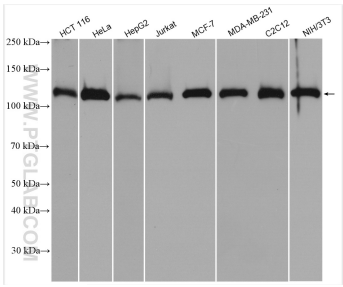
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

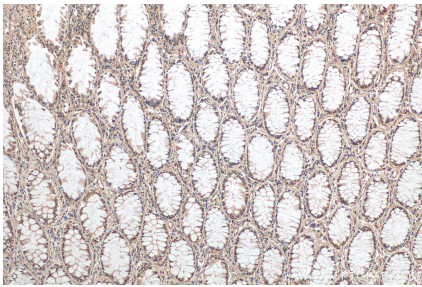
W: [ptgcn.com](http://ptgcn.com)

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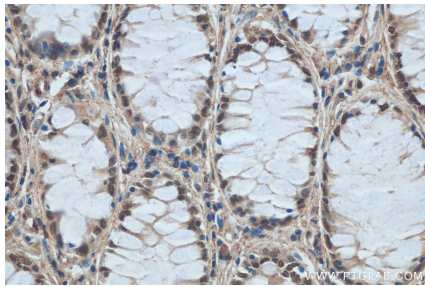
Selected Validation Data



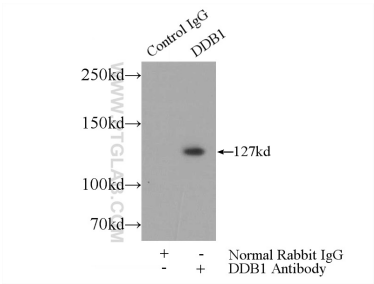
Various lysates were subjected to SDS PAGE followed by western blot with 11380-1-AP (DDB1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



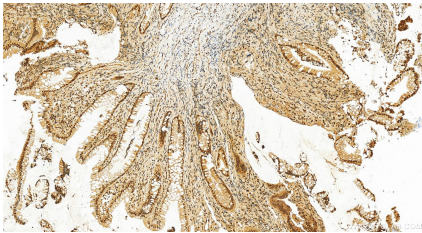
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11380-1-AP (DDB1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11380-1-AP (DDB1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-DDB1 (IP:11380-1-AP, 5ug; Detection:11380-1-AP 1:500) with Jurkat cells lysate 3080ug.



Immunohistochemical analysis of paraffin-embedded human colon cancer slide using 11380-1-AP (DDB1 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).