

For Research Use Only

DDB1 Polyclonal antibody

Catalog Number: 11380-1-AP

Featured Product

12 Publications



Basic Information

Catalog Number:

11380-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

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

*** 20ul sizes contain 0.1% BSA

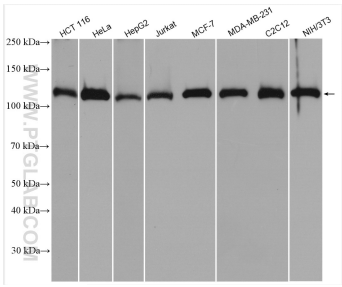
For technical support and original validation data for this product please contact:

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

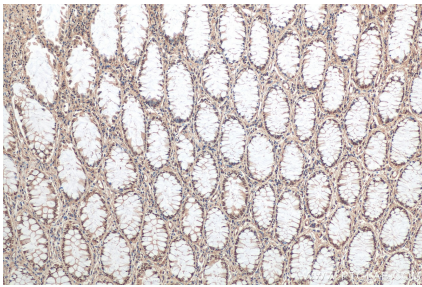
E: proteintech@ptglab.com
W: ptglab.com

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

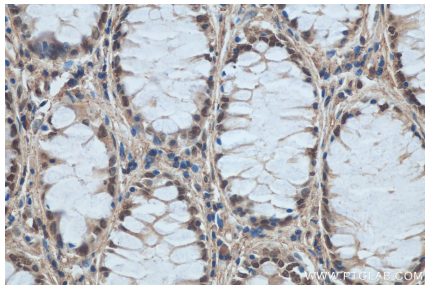
Selected Validation Data



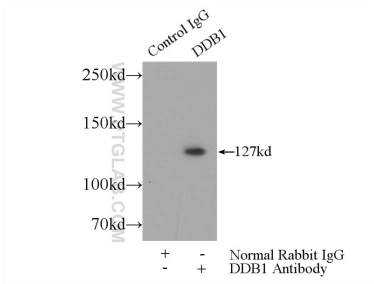
Various lysates were subjected to SDS PAGE followed by western blot with 11380-1-AP (DDB1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



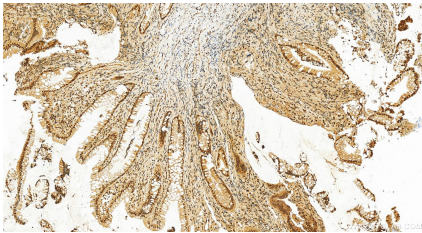
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11380-1-AP (DDB1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).