

For Research Use Only

# PLOD3 Polyclonal antibody

Catalog Number: 11027-1-AP

Featured Product

36 Publications



## Basic Information

### Catalog Number:

11027-1-AP

### Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 253 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1480

### GenBank Accession Number:

BC011674

### GeneID (NCBI):

8985

### UNIPROT ID:

O60568

### Full Name:

procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3

### Calculated MW:

738 aa, 85 kDa

### Observed MW:

80-85 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: 1:100-1:400

IF/ICC: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, drosophila

**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: A549 cells, PC-3 cells, HepG2 cells, HeLa cells, human placenta tissue, mouse placenta tissue

IP: HepG2 cells,

IHC: human pancreas cancer tissue, human pancreas tissue

IF/ICC: HepG2 cells,

## Background Information

PLOD3, also named as LH3, forms hydroxylysine residues in -Xaa-Lys-Gly- sequences in collagens. These hydroxylysines serve as sites of attachment for carbohydrate units and are essential for the stability of the intermolecular collagen cross-links. The major function of PLOD3 in osteoblasts is to glucosylate galactosylhydroxylysine residues in type I collagen.

## Notable Publications

Author	Pubmed ID	Journal	Application
Randy T Cowling	28923350	J Mol Cell Cardiol	WB
Stephen A Watt	26380979	PLoS One	IF
Siming Gong	34576068	Int J Mol Sci	IHC

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

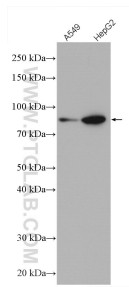
For technical support and original validation data for this product please contact:

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

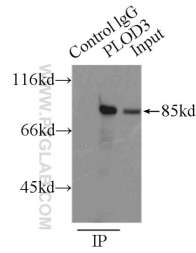
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

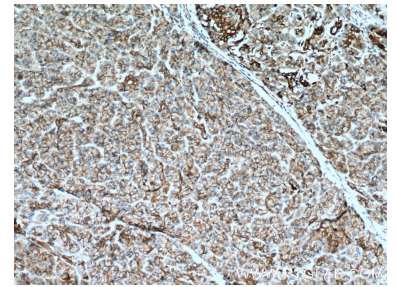
## Selected Validation Data



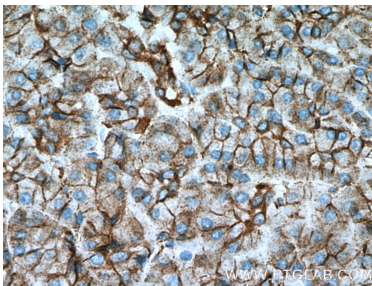
Various lysates were subjected to SDS PAGE followed by western blot with 11027-1-AP (PLOD3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



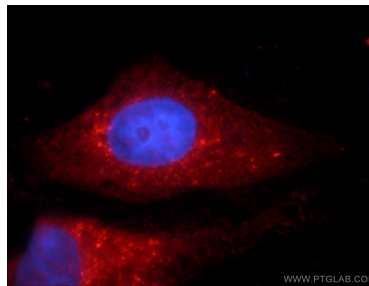
IP result of anti-PLOD3 (IP:11027-1-AP, 3ug; Detection:11027-1-AP 1:500) with HepG2 cells lysate 6000ug.



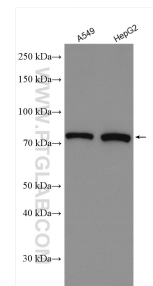
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 11027-1-AP (PLOD3 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



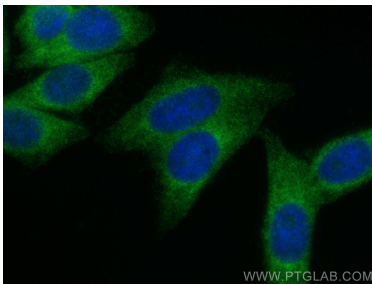
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 11027-1-AP (PLOD3 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HepG2 cells using 11027-1-AP (PLOD3 antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.



Various lysates were subjected to SDS PAGE followed by western blot with 11027-1-AP (PLOD3 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using PLOD3 antibody (11027-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).