

For Research Use Only

# PLOD3 Polyclonal antibody

Catalog Number: 11027-1-AP

Featured Product

33 Publications



## Basic Information

**Catalog Number:**

11027-1-AP

**Size:**

350 µg/ml

**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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:100-1:400

IF 1:10-1:100

## Applications

**Tested Applications:**

IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:**

WB, IP, IF, IHC

**Species Specificity:**

human, mouse, rat

**Cited Species:**

Drosophila, human, mouse, rat

**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:** 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

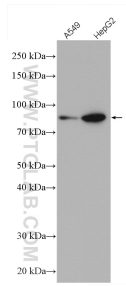
T: 4006900926

E: Proteintech-CN@ptglab.com

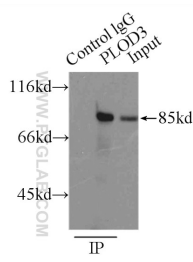
W: ptgcn.com

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

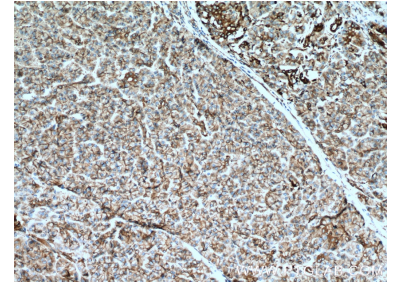
## Selected Validation Data



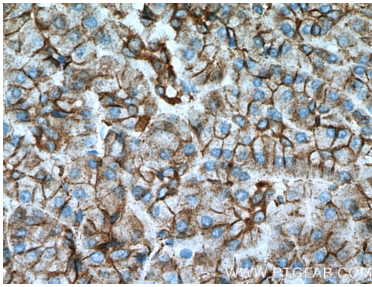
Various lysates were subjected to SDS PAGE followed by western blot with 11027-1-AP (PLOD3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



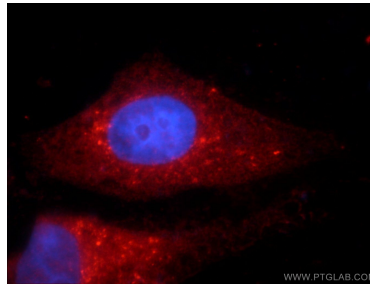
IP result of anti-PLOD3 (IP:11027-1-AP, 3ug; Detection:11027-1-AP 1:500) with HepG2 cells lysate 6000ug.



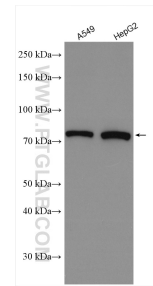
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 11027-1-AP (PLOD3 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.