

For Research Use Only

# PLOD1 Polyclonal antibody

Catalog Number: 12475-1-AP **5 Publications**



## Basic Information

<b>Catalog Number:</b> 12475-1-AP	<b>GenBank Accession Number:</b> BC016657	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 167 µg/ml by Nanodrop and 167 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5351	<b>Recommended Dilutions:</b> IHC 1:100-1:400
<b>Source:</b> Rabbit	<b>Full Name:</b> procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 727 aa, 84 kDa	
<b>Immunogen Catalog Number:</b> AG3103	<b>Observed MW:</b> 85-88 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> IHC : human skin cancer tissue,
<b>Cited Applications:</b> IF, IHC, WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> Bumblebees, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

PLOD1, also named as LLH, PLOD and LH1, 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. PLOD1 catalyses the hydroxylation of lysine residues during the posttranslational modification of type I collagen, the major protein of bone.

## Notable Publications

Author	Pubmed ID	Journal	Application
Tomoaki Saito	34718219	Bone	WB,IHC
Tilman Pfeffer	33020194	J Pharmacol Exp Ther	WB
Yueqin Guo	34899871	Front Genet	IF

## Storage

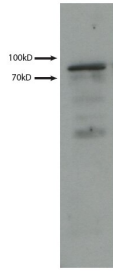
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

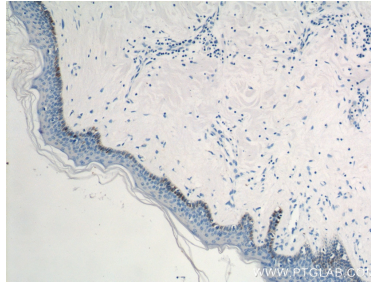
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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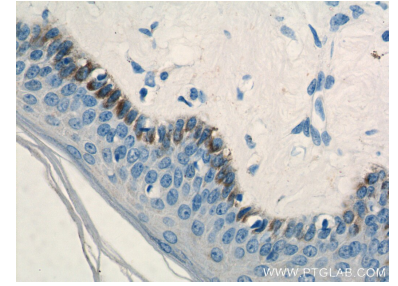
## Selected Validation Data



WB result of PLOD1 antibody (12475-1-AP, 1:200) with Protein extracts from Human Fibroblasts.



Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 12475-1-AP (PLOD1 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 12475-1-AP (PLOD1 Antibody) at dilution of 1:200 (under 40x lens).