

For Research Use Only

# PLOD1 Polyclonal antibody

Catalog Number: 29480-1-AP

1 Publications



## Basic Information

<b>Catalog Number:</b> 29480-1-AP	<b>GenBank Accession Number:</b> BC016657	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 700 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5351	<b>Recommended Dilutions:</b> WB 1:1000-1:6000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q02809	IHC 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1	IF/ICC 1:50-1:500
<b>Immunogen Catalog Number:</b> AG31626	<b>Calculated MW:</b> 727 aa, 84 kDa	
	<b>Observed MW:</b> 84-88 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IHC	<b>WB :</b> A375 cells, K-562 cells, HeLa cells, U-251 cells, U2OS cells
<b>Species Specificity:</b> Human	<b>IHC :</b> human skin cancer tissue,
<b>Cited Species:</b> human	<b>IF/ICC :</b> K-562 cells,

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

## Background Information

PLOD1, as known as procollagen-lysine, 2-oxoglutarate 5-dioxygenase 1, is a member of the PLOD family(Uniprot, GeneID:5351). PLOD1 participates in catalyzing hydroxylysine residue, which is critical for the formation of covalent cross-link (PMID:30003082). PLOD1 plays an important role in the development and progression of tumors. Aberrantly expressed PLOD1 promotes cancer aggressiveness in glioma and bladder cancer, providing a potential prognostic biomarker and therapeutic target (PMID:31199049, PMID:34040895). PLOD1 has 2 isoforms produced by alternative splicing.

## Notable Publications

Author	Pubmed ID	Journal	Application
Dan-Dan Wang	39068670	Aging (Albany NY)	IHC

## Storage

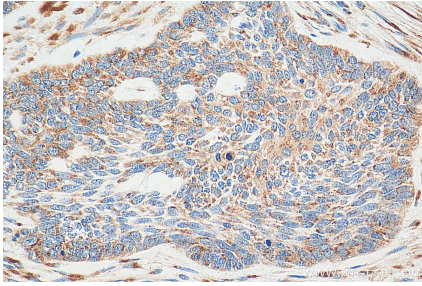
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

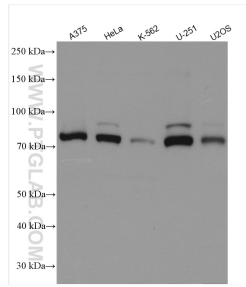
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

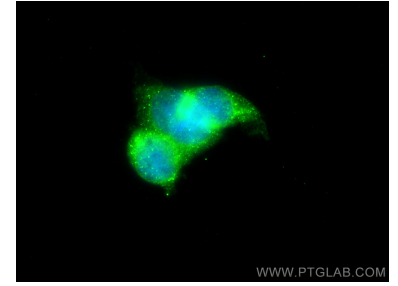
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 29480-1-AP (PLOD1 antibody) at dilution of 1:200 (under 40x lens).



Various lysates were subjected to SDS PAGE followed by western blot with 29480-1-AP (PLOD1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed K-562 cells using PLOD1 antibody (29480-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).