For Research Use Only

PLOD2 Polyclonal antibody

Catalog Number:21214-1-AP

Featured Product 53 Publications



Basic Information

GenBank Accession Number: Catalog Number:

21214-1-AP BC037169 GeneID (NCBI): Size: 150ul , Concentration: 500 ug/ml by

Nanodrop: **UNIPROT ID:** 000469

Rabbit Full Name:

procollagen-lysine, 2-oxoglutarate 5- FC (Intra): 0.40 ug per 10^6 cells in a Isotype: IgG dioxygenase 2

87 kDa

Immunogen Catalog Number: Calculated MW:

AG15614 758 aa. 85 kDa Observed MW:

Applications

Tested Applications:

Cited Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

WB, IHC, IF human, mouse, rat

human, mouse, rabbit, zebrafish

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

Purification Method: Antigen affinity purification

Recommended Dilutions: WB: 1:500-1:3000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate IHC: 1:50-1:500 IF/ICC: 1:50-1:500

100 ul suspension

WB: Caco-2 cells, A431 cells, DU 145 cells, HT-1080

cells, THLE-2 cells, HEK-293 cells, HeLa cells, HepG2

IHC: human liver cancer tissue, human pancreas

tissue, human skeletal muscle tissue

Species Specificity: Cited Species:

Positive Controls:

IP: mouse testis tissue,

IF/ICC: HeLa cells,

FC (Intra): HeLa cells,

Background Information

PLOD2, also named as LH2, forms hydroxylysine residues in -Xaa-Lys-Gly- sequences in collagens. It is a potential $novel\ prognostic\ factor\ for\ HCC\ patients\ following\ surgery.\ Among\ the\ PLOD\ genes,\ PLOD\ contributes\ to\ cancer$ prognosis and angiogenesis. Several authors have reported that PLOD2 expression might provide prognostic information about malignant tumours such as glioblastoma. PLOD2 expression is a useful biomarker for the effects of antiangiogenic treatment for malignancy. (PMID:22098155). It has 2 isoforms produced by alternative splicing and seven glycosylation sites. This antibody is specific to PLOD2.

Notable Publications

Author	Pubmed ID	Journal	Application
Tomoaki Saito	34718219	Bone	WB,IHC
Ryunosuke Nozaki	34875533	Biochem Biophys Res Commun	WB
Bernd Stratmann	27898103	Sci Rep	WB

Storage

Storage:

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

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

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

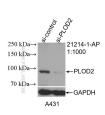
For technical support and original validation data for this product please contact:

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

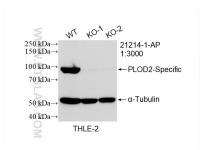
E: proteintech@ptglab.com W: ptglab.com

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

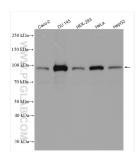
Selected Validation Data



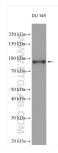
WB result of PLOD2 antibody (21214-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PLOD2-Specific transfected A431 cells



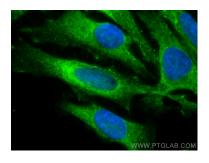
WB result of PLOD2 antibody (21214-1-AP 1:3000; room temperature for 1.5 hours) with wild-type and PLOD2 knockout THLE-2 cells.



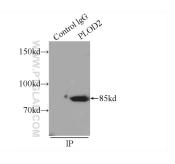
Various lysates were subjected to SDS PAGE followed by western blot with 21214-1-AP (PLOD2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



DU 145 cells lysates were subjected to SDS PAGE followed by western blot with 21214-1-AP (PLOD2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



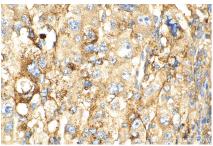
Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using PLOD2 antibody (21214-1-AP) at dilution of 1:200 and Coralite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



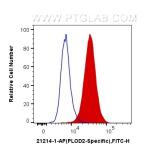
IP result of anti-PLOD2 (IP:21214-1-AP, 4ug; Detection:21214-1-AP 1:500) with mouse testis tissue lysate 5000ug.



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 21214-1-AP (PLOD2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 21214-1-AP (PLOD2-Specific antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human PLOD2 (21214-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit $\lg G(H+L)$ at dilution 1:1000 (red), or 0.4 ug x. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).