For Research Use Only

PLOD2 Monoclonal antibody

Catalog Number:66342-1-Ig Featured Product 6 Publications

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Basic Information

Catalog Number:
66342-1-Ig

Size:
150ul , Concentration: 1000 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgA

Immunogen Catalog Number:
AG5779

GenBank Accession Number:
BC037169

GeneID (NCBI):
5352

UNIPROT ID:
O00469

Full Name:
procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2

Calculated MW:
758 aa, 85 kDa

Observed MW:
87 kDa

Purification Method:
Protein A purification

CloneNo.:
1H9E1

Recommended Dilutions:
WB 1:1000-1:4000
IHC 1:200-1:1000

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC

Species Specificity:
human

Cited Species:
human

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 : DU 145 cells, A431 cells, HEK-293 cells, THLE-2 cells, A549 cells, Hela cells, HEK293 cells, HepG2 cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells

IHC : human liver cancer tissue,

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, PLOD2 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Yajuan Zhao	34557495	Front Cell Dev Biol	WB,IHC
Aixin Yu	39820362	Commun Biol	WB
Dan-Dan Wang	39068670	Aging (Albany NY)	IHC

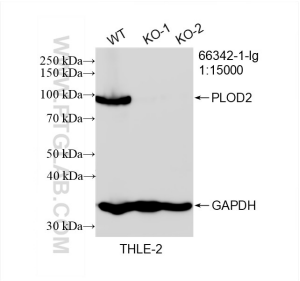
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

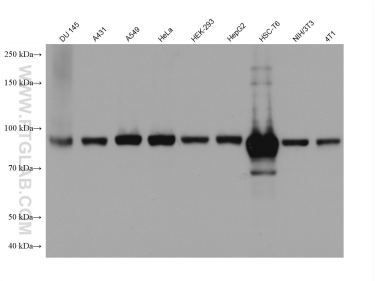
*** 20ul sizes contain 0.1% BSA

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

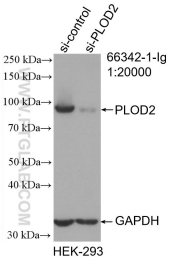
Selected Validation Data



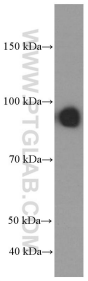
WB result of PLOD2 antibody (66342-1-Ig; 1:15000; room temperature for 1.5 hours) with wild-type and PLOD2 knockout THLE-2 cells.



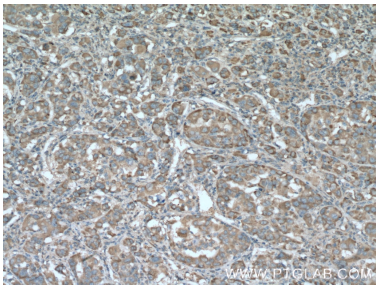
Various lysates were subjected to SDS PAGE followed by western blot with 66342-1-Ig (PLOD2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



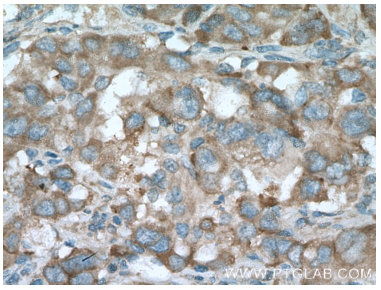
WB result of PLOD2 antibody (66342-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PLOD2 transfected HEK-293 cells.



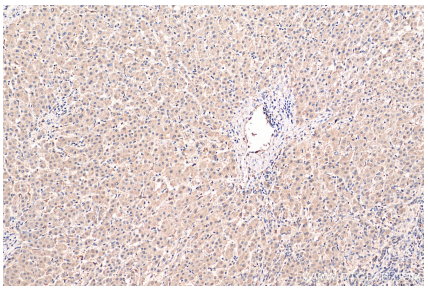
DU 145 cells were subjected to SDS PAGE followed by western blot with 66342-1-Ig (PLOD2 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



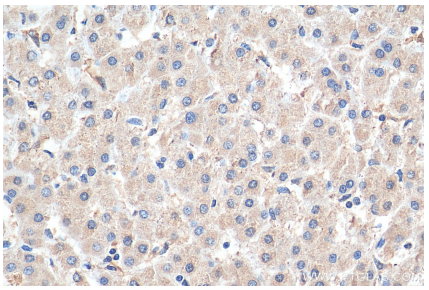
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66342-1-Ig (PLOD2 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66342-1-Ig (PLOD2 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66342-1-Ig (PLOD2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66342-1-Ig (PLOD2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).