

For Research Use Only

PLOD1 Polyclonal antibody

Catalog Number: 29480-1-AP



Basic Information

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

Applications

Tested Applications:

IF, IHC, WB, ELISA

Species Specificity:

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 : A375 cells, K-562 cells, HeLa cells, U-251 cells, U2OS cells

IHC : human skin cancer tissue,

IF : K-562 cells,

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.

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

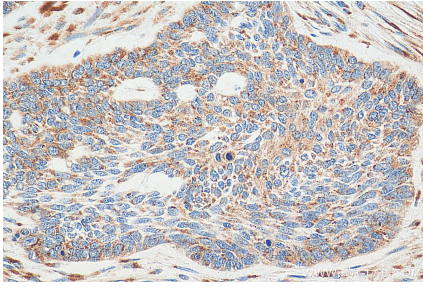
For technical support and original validation data for this product please contact:

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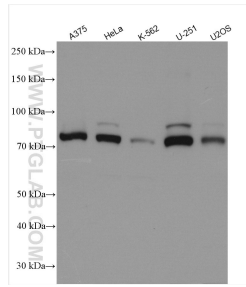
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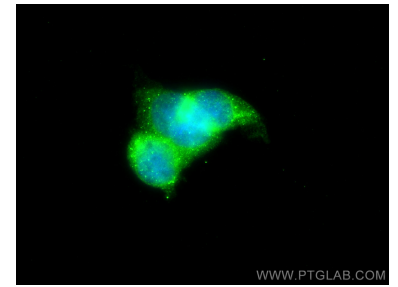
Selected Validation Data



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 AffiniPure Goat Anti-Rabbit IgG(H+L).