

# PLOD1 Antibody (C-term)

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AM8710b

## Product Information

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Application	WB, E
Primary Accession	<a href="#">Q02809</a>
Reactivity	Human
Predicted	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2b, $\kappa$
Clone Names	2114CT109.4.71.73
Calculated MW	83550

## Additional Information

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Gene ID	5351
Other Names	Procollagen-lysine, 2-oxoglutarate 5-dioxygenase 1, 1.14.11.4, Lysyl hydroxylase 1, LH1, PLOD1, LLH, PLOD
Target/Specificity	This PLOD1 antibody is generated from a mouse immunized with a KLH conjugated synthetic peptide between 61-94 amino acids from the C-terminal region of human PLOD1.
Dilution	WB~~1:4000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PLOD1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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Name	PLOD1
Synonyms	LLH, PLOD
Function	Part of a complex composed of PLOD1, P3H3 and P3H4 that catalyzes hydroxylation of lysine residues in collagen alpha chains and is required for

normal assembly and cross-linking of collagen fibrils (By similarity). Forms hydroxylysine residues in -Xaa-Lys- Gly- sequences in collagens (PubMed:[10686424](#), PubMed:[15854030](#), PubMed:[8621606](#)). These hydroxylysines serve as sites of attachment for carbohydrate units and are essential for the stability of the intermolecular collagen cross-links (Probable).

#### Cellular Location

Rough endoplasmic reticulum membrane; Peripheral membrane protein; Luminal side

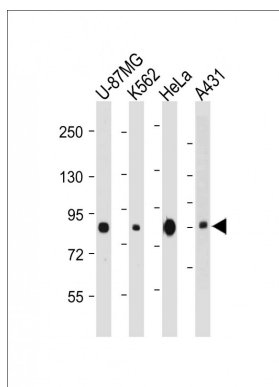
## Background

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.

## References

Hautala T.,et al.Genomics 13:62-69(1992).  
Heikkinen J.,et al.Genomics 24:464-471(1994).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Gregory S.G.,et al.Nature 441:315-321(2006).  
Pirskanen A.,et al.J. Biol. Chem. 271:9398-9402(1996).

## Images



All lanes : Anti-PLD1 Antibody (C-term) at 1:4000 dilution Lane 1: U-87MG whole cell lysate Lane 2: K562 whole cell lysate Lane 3: HeLa whole cell lysate Lane 4: A431 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 84 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.