

**PLOD1 Antibody (C-term)**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8710b**

**Specification**

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**PLOD1 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O02809</a>
Other Accession	<a href="#">O9R0E2</a>
Reactivity	Human
Predicted	Mouse
Host	Mouse
Clonality	monoclonal
Isotype	IgG2b, $\kappa$
Calculated MW	83550

**PLOD1 Antibody (C-term) - Additional Information**

**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

**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.

**PLOD1 Antibody (C-term) - Protein Information**

**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

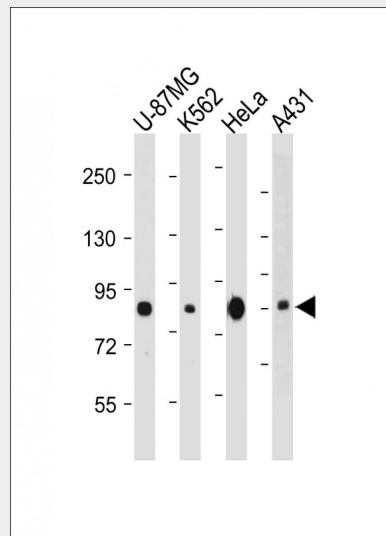
Rough endoplasmic reticulum membrane; Peripheral membrane protein; Luminal side

### PLOD1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### PLOD1 Antibody (C-term) - Images



All lanes : Anti-PLOD1 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% NFDN/TBST.

### PLOD1 Antibody (C-term) - 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.

### PLOD1 Antibody (C-term) - 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).  
Pirkanen A., et al. J. Biol. Chem. 271:9398-9402(1996).