

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

Specification

PLOD1 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	Q02809
Other Accession	Q9R0E2
Reactivity	Human
Predicted	Mouse
Host	Mouse
Clonality	monoclonal
Isotype	IgG2b, κ
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

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.

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

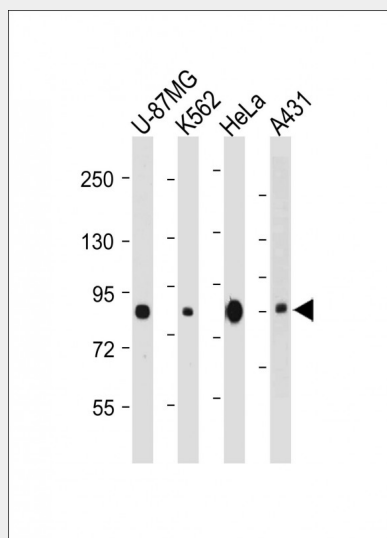
Rough endoplasmic reticulum membrane; Peripheral membrane protein; Luminal side

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% NFD/MTBST.

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).
Pirskanen A.,et al.J. Biol. Chem. 271:9398-9402(1996).