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PLOD1 Antibody (C-term)

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8710b

Product Information

Application	WB, E
Primary Accession	Q02809
Reactivity	Human
Predicted	Human, Mouse, Rat, Bovine, Canine, Rabbit
Host	Mouse
Clonality	monoclonal
Isotype	IgG2b,κ
Clone Names	2114CT109.4.71.73
Calculated MW	83550

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.

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-linkling 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; Lumenal side

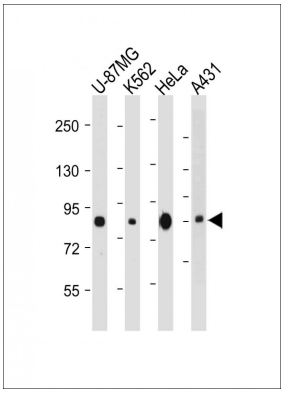
Background

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-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% NFDM/TBST.

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