

Rabbit PLOD1 Polyclonal Antibody | anti-PLOD1 antibody

PLOD1 Antibody (N-term)

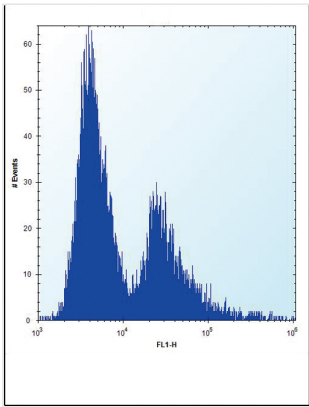
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290280	Rabbit	Human (Predicted Reactivity: Mouse)	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

PLOD1; Polyclonal Antibody; PLOD1 Antibody (N-term); Procollagen-lysine; 2-oxoglutarate 5-dioxygenase 1; Lysyl hydroxylase 1; LH1; LLH; PLOD; anti-PLOD1 antibody

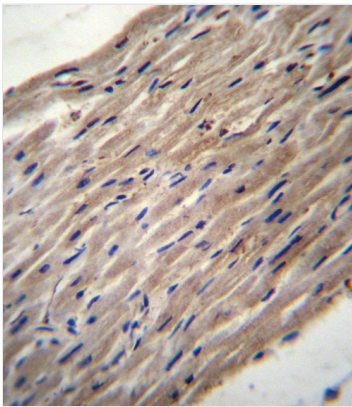
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PLOD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 66-94 amino acids from the N-terminal region of human PLOD1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.3 (varies by lot)
Sequence Positions	66-94
Sequence Length	727
Applicable Applications for anti-PLOD1 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Crown Antibody	Yes
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



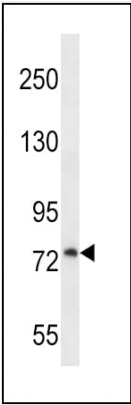
FCM/FACS (Flow Cytometry)

PLOD1 Antibody (N-term) flow cytometric analysis of U251 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



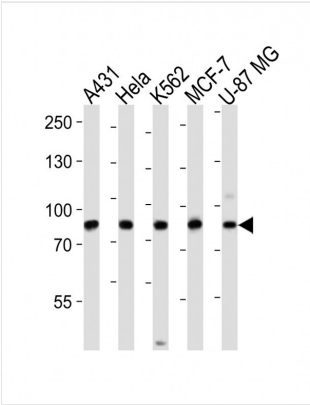
IHC (Immunohistochemistry)

PLOD1 Antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of PLOD1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



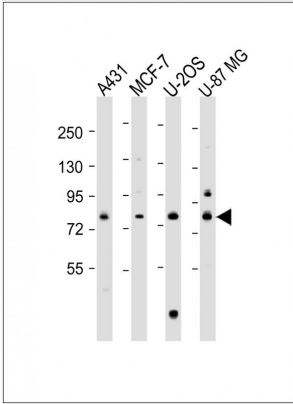
WB (Western Blot)

PLOD1 Antibody (N-term) western blot analysis in U251 cell line lysates (35ug/lane).This demonstrates the PLOD1 antibody detected the PLOD1 protein (arrow).



WB (Western Blot)

Western blot analysis of lysates from A431, HeLa, K562, MCF-7, U-87 MG cell line (from left to right), using PLOD1 Antibody (N-term). AAA290280 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.



WB (Western Blot)

All lanes : Anti-PLOD1 Antibody (N-term) at 1:2000 dilutionLane 1: A431 whole cell lysatesLane 2: MCF-7 whole cell lysatesLane 3: U-2OS whole cell lysatesLane 4: U-87 MG whole cell lysatesLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilutionPredicted band size : 84 kDaBlocking/Dilution buffer: 5% NFDN/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti- PLOD1 antibody	Lysyl hydroxylase is a membrane-bound homodimeric protein localized to the cisternae of the endoplasmic reticulum. The enzyme (cofactors iron and ascorbate) catalyzes the hydroxylation of lysyl residues in collagen-like peptides. The resultant hydroxylysyl groups are attachment sites for carbohydrates in collagen and thus are critical for the stability of intermolecular crosslinks. Some patients with Ehlers-Danlos syndrome type VI have deficiencies in lysyl hydroxylase activity.
Product Categories/Family for anti- PLOD1 antibody	Crown Antibodies ; Signal Transduction
References	Johnatty, S.E., et al. PLoS Genet. 6 (7), E1001016 (2010) : Huang, Q.Y., et al. Bone 44(5):984-988(2009) Yamada, Y., et al. Int. J. Mol. Med. 19(5):791-801(2007) Tasker, P.N., et al. Osteoporos Int 17(7):1078-1085(2006) Giunta, C., et al. Mol. Genet. Metab. 86 (1-2), 269-276 (2005) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	32307144
NCBI GeneID	5351
NCBI Accession #	NP_000293.2
NCBI GenBank Nucleotide #	NM_000302.3
UniProt Accession #	Q02809 ; Q96AV9 ; Q9H132 ; B4DR87
Molecular Weight	83550
NCBI Official Full Name	procollagen-lysine,2-oxoglutarate 5-dioxygenase 1
NCBI Official Synonym Full Names	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 1
NCBI Official Symbol	PLOD1
NCBI Official Synonym Symbols	LH; LH1; LLH; EDS6; PLOD
NCBI Protein Information	procollagen-lysine,2-oxoglutarate 5-dioxygenase 1
UniProt Protein Name	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 1
UniProt Gene Name	PLOD1
UniProt Synonym Gene Names	LLH; PLOD; LH1
UniProt Entry Name	PLOD1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/plod1-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/290280>