

Datasheet for ABIN954205
anti-PLOD1 antibody (N-Term)

3 Images

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Overview

Quantity:	0.4 mL
Target:	PLOD1
Binding Specificity:	AA 73-102, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PLOD1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 73-102 amino acids from the N-terminal region of human PLOD1 / PLOD
Isotype:	Ig Fraction
Specificity:	This antibody recognizes Human PLOD1 / PLOD (N-term).
Purification:	Protein A column, followed by peptide affinity purification

Target Details

Target:	PLOD1
Alternative Name:	PLOD1 / PLOD (PLOD1 Products)

Target Details

Background: 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. Synonyms: 2-oxoglutarate 5-dioxygenase 1, LLH, Lysyl hydroxylase 1, Procollagen-lysine

Molecular Weight: 83550 Da

Gene ID: 5351

NCBI Accession: [NP_000293](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.25 mg/mL

Buffer: PBS containing 0.09 % (W/V) Sodium Azide as preservative

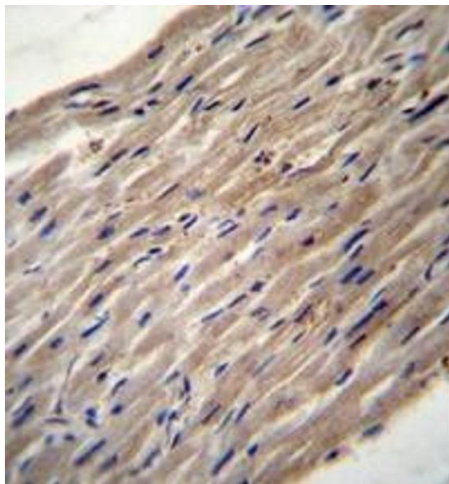
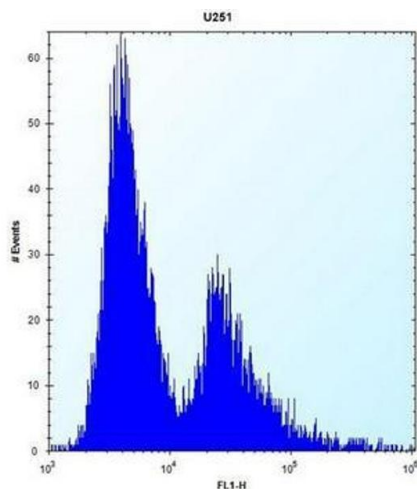
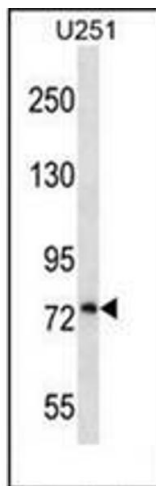
Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.



Western Blotting

Image 1. Western blot analysis of PLOD1 / PLOD Antibody (N-term) in U251 cell line lysates (35ug/lane). This demonstrates the PLOD1 antibody detected the PLOD1 protein (arrow).

Flow Cytometry

Image 2. Flow cytometric analysis of U251 cells using PLOD1 / PLOD Antibody (N-term) Cat-No AP53354PU-N (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis

Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemistry analysis in formalin fixed and paraffin embedded human heart tissue reacted with PLOD1 / PLOD Antibody (N-term) followed which was peroxidase conjugated to the secondary antibody and followed by DAB staining. This data demonstrates the use of PLOD1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.