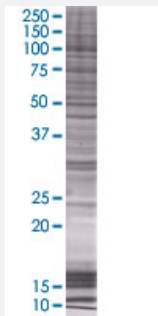


# PLOD2 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00005352-T01

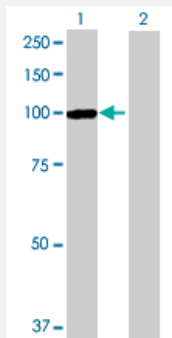
Size 100 uL

## Applications



### SDS-PAGE Gel

PLOD2 transfected lysate.



### Western Blot

Lane 1: PLOD2 transfected lysate ( 83.49 KDa)

Lane 2: Non-transfected lysate.

## Specification

Transfected Cell Line	293T
Plasmid	pCMV-PLOD2 full-length
Host	Human
Theoretical MW (kDa)	83.49
Interspecies Antigen Sequence	Mouse (91); Rat (91)

## Quality Control Testing

Transient overexpression cell lysate was tested with Anti-PLOD2 antibody ([H00005352-B01](#)) by Western Blots.  
SDS-PAGE Gel  
PLOD2 transfected lysate.  
Western Blot  
Lane 1: PLOD2 transfected lysate ( 83.49 KDa)  
Lane 2: Non-transfected lysate.

## Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

## Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot

## Gene Info — PLOD2

## Entrez GeneID

[5352](#)

## GeneBank Accession#

[NM\\_182943.2](#)

## Protein Accession#

[NP\\_891988.1](#)

## Gene Name

PLOD2

## Gene Alias

LH2, TLH

## Gene Description

procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2

## Omim ID

[601865 609220](#)

## Gene Ontology

[Hyperlink](#)

## Gene Summary

The protein encoded by this gene is a membrane-bound homodimeric enzyme that is localized to the cisternae of the rough 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 VIIB have deficiencies in lysyl hydroxylase activity. Mutations in the coding region of this gene are associated with Bruck syndrome. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq]

## Other Designations

lysine hydroxylase 2|lysyl hydroxylase 2|telopeptide lysyl hydroxylase

## Pathway

- [Lysine degradation](#)

## Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Ovarian Neoplasms](#)