

PLOD3 Rabbit pAb

CatalogNo: YN5757

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 81kD (Calculated)

Isotype

- IgG

| Recommended Dilution Ratios

WB 1:500-2000

| Storage

Storage*

-15°C to -25°C/1 year(Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality

Polyclonal

| Immunogen Information

Immunogen

Synthesized peptide derived from human PLOD3

Specificity

This antibody detects endogenous levels of PLOD3 at Human, Mouse, Rat

| Target Information

Gene name

PLOD3

Protein Name	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 3 (Lysyl hydroxylase 3) (LH3)		
	Organism	Gene ID	UniProt ID
	Human	8985;	O60568;
	Mouse	26433;	Q9R0E1;
	Rat	288583;	Q5U367;
Cellular Localization	Rough endoplasmic reticulum . Endoplasmic reticulum lumen . Endoplasmic reticulum membrane ; Peripheral membrane protein ; Luminal side . Secreted . Secreted, extracellular space . The majority of the secreted protein is associated with the extracellular matrix. .		
Tissue specificity	Ubiquitous (PubMed:9724729). Detected in heart, placenta and pancreas and at lower levels in lung, liver and skeletal muscle (PubMed:9582318, PubMed:9724729).		
Function	Multifunctional enzyme that catalyzes a series of essential post-translational modifications on Lys residues in procollagen . Plays a redundant role in catalyzing the formation of hydroxylysine residues in -Xaa-Lys-Gly- sequences in collagens . Plays a redundant role in catalyzing the transfer of galactose onto hydroxylysine groups, giving rise to galactosyl 5-hydroxylysine . Has an essential role by catalyzing the subsequent transfer of glucose moieties, giving rise to 1,2-glucosylgalactosyl-5-hydroxylysine residues . Catalyzes hydroxylation and glycosylation of Lys residues in the MBL1 collagen-like domain, giving rise to hydroxylysine and 1,2-glucosylgalactosyl-5-hydroxylysine residues . Essential for normal biosynthesis and secretion of type IV collagens (Probable). Essential for normal formation of basement membranes (By similarity).		

| Validation Data

| Contact information

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