

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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PLOD3 Rabbit pAb

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