



Anti-PLOD1 (aa 19-114) polyclonal antibody (DPAB-DC2279)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	PLOD1 (NP_000293, 19 a.a. ~ 114 a.a) partial recombinant protein with GST tag. The sequence is KGDAKPEDNLLVLTVATKETEGFRRFKRSAQFFNYKIQALGLGEDWNVEKGTSAAGGGQKVRL KKALEKHADKEDLVILFADSYDVLVLFASGPRELL
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	PLOD1 procollagen-lysine, 2-oxoglutarate 5-dioxygenase 1 [Homo sapiens (human)]
Official Symbol	PLOD1
Synonyms	PLOD1; procollagen-lysine, 2-oxoglutarate 5-dioxygenase 1; LH; LH1; LLH; EDS6; PLOD;

procollagen-lysine,2-oxoglutarate 5-dioxygenase 1; lysine hydroxylase; lysyl hydroxylase 1;
procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1;

Entrez Gene ID	5351
Protein Refseq	NP_000293
UniProt ID	A0A024R4H0
Chromosome Location	1p36.22
Pathway	Collagen biosynthesis and modifying enzymes; Extracellular matrix organization; Lysine degradation;
Function	L-ascorbic acid binding; iron ion binding; procollagen-lysine 5-dioxygenase activity; protein homodimerization activity
