

# Bovine Procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 (PLOD1) ELISA Kit

Catalog No: #EK11461

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)

Package Size: #EK11461-1 48T #EK11461-2 96T

Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

Product Name	Bovine Procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 (PLOD1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Bovine (Bos taurus; Cattle)
Other Names	RP5-1077B9.2; FLJ42041; LH; LH1; LLH; PLOD; lysine hydroxylase lysyl hydroxylase 1 procollagen-lysine; 2-oxoglutarate 5-dioxygenase
Accession No.	O77588
Uniprot	O77588
GeneID	281409;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.  The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

## Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PLOD1 in samples. An antibody specific for PLOD1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PLOD1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PLOD1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PLOD1 bound in the initial step. The color development is stopped and the intensity of the color is measured.  
**Product Overview:**PLOD1 encode a polypeptide of 709 amino acid residues and a signal peptide of 18 amino acids. The human coding sequence shows 72% identity to the chick sequences at the nucleotide level and 76% identity at the amino acid level. The C-terminal region is especially well conserved; residues 588 to 727 show 94% identity between the 2 species and residues 639 to 715 show 99% identity. The gene for lysyl hydroxylase, symbolized PLOD (for procollagen-lysine, 2-oxoglutarate 5-dioxygenase), was mapped to chromosome 1 by Southern blot analysis of human/mouse somatic cell hybrids, to the 1pter-1p34 region by use of cell hybrids that contained various rearrangements of human chromosome 1, and to 1p36.3-p36.2 by in situ hybridization.

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Note: This product is for in vitro research use only