

Mouse Procollagen-Lysine, 2-Oxoglutarate 5-Dioxygenase 2 (PLOD2) ELISA Kit | PLOD2 elisa kit

Mouse Procollagen-Lysine, 2-Oxoglutarate 5-Dioxygenase 2 (PLOD2) ELISA Kit

CATALOG # AAA332402	REACTIVITY Mouse
-------------------------------	----------------------------

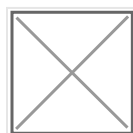
PRODUCT SYNONYMS

Procollagen-Lysine, 2-Oxoglutarate 5-Dioxygenase 2 (PLOD2); Mouse Procollagen-Lysine, 2-Oxoglutarate 5-Dioxygenase 2 (PLOD2) ELISA Kit; PLOD2; LH2; TLH; lysine hydroxylase 2; lysyl hydroxylase 2; telopeptide lysyl hydroxylase; PLOD2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Mouse Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 (PLOD2) ELISA Kit has high sensitivity and excellent specificity for detection of Mouse PLOD2. No significant cross-reactivity or interference between Mouse PLOD2 and analogues was observed.
Sequence Length	758
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Mouse Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 (PLOD2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PLOD2 elisa kit	Description: This Mouse Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 (PLOD2) ELISA Kit employs a two-site sandwich ELISA to quantitate PLOD2 in samples. An antibody specific for PLOD2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PLOD2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PLOD2 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 PLOD2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: PLOD2 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 VIB 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. The similarity is even higher in the C-terminal region of the polypeptides. The PLOD2 gene contains 9 cysteines conserved in PLOD, in addition to conserved histidines in the putative active site.
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	218931167
NCBI GeneID	26432
NCBI Accession #	NP_001136388.1
NCBI GenBank Nucleotide #	NP_001136388.1
UniProt Accession #	Q9R0B9
NCBI Official Full Name	procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 isoform 1
NCBI Official Synonym Full Names	procollagen lysine, 2-oxoglutarate 5-dioxygenase 2
NCBI Official Symbol	Plod2
NCBI Official Synonym Symbols	LH2; Plod-2; D530025C14Rik
NCBI Protein Information	procollagen-lysine,2-oxoglutarate 5-dioxygenase 2
UniProt Protein Name	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2
UniProt Gene Name	Plod2
UniProt Synonym Gene Names	LH2
UniProt Entry Name	PLOD2_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.