

Human P3H1 (Prolyl 3-hydroxylase 1) ELISA Kit | P3H1 elisa kit

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CATALOG #
AAA248948

REACTIVITY
Human

PRODUCT SYNONYMS

P3H1 (Prolyl 3-hydroxylase 1); Human P3H1 (Prolyl 3-hydroxylase 1) ELISA Kit; P3H1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of OxLDL. No significant cross-reactivity or interference between OxLDL and analogues was observed.
Sequence Length	736
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level OxLDL were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level OxLDL were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a P3H1 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	ng/ml	0	0.156	0.312	0.625	1.25	2.5	5	10
Y	OD450	0.053	0.12	0.181	0.279	0.501	0.885	1.49	1.973

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for P3H1 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-OxLDL antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-OxLDL antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the OxLDL amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of OxLDL can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	186928835
NCBI GeneID	64175
NCBI Accession #	NP_071751.3
NCBI GenBank Nucleotide #	NM_022356.3
UniProt Accession #	Q32P28; Q7KZR4; Q96BR8; Q96SK8; Q96SL5; Q96SN3; Q9H6K3; Q9HC86; Q9HC87
Molecular Weight	41,215 Da
NCBI Official Full Name	prolyl 3-hydroxylase 1 isoform 1
NCBI Official Synonym Full Names	prolyl 3-hydroxylase 1
NCBI Official Symbol	P3H1
NCBI Official Synonym Symbols	OI8; GROS1; LEPRE1
NCBI Protein Information	prolyl 3-hydroxylase 1
UniProt Protein Name	Prolyl 3-hydroxylase 1
UniProt Gene Name	P3H1
UniProt Synonym Gene Names	GROS11 PublicationManual assertion based on opinion iniRef.1; Leprecan-1By similarityManual assertion inferred from sequence similarity toiUniProtKB:Q9R1J8Â (P3H1_RAT)

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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/p3h1-prolyl-3-hydroxylase-1/248948>