

Mouse Prolyl-4-Hydroxylase Alpha Polypeptide I (P4Ha1) ELISA Kit | P4Ha1 elisa kit

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CATALOG #
AAA68638

REACTIVITY
Mouse

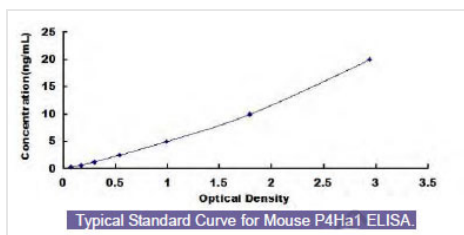
PRODUCT SYNONYMS

Prolyl-4-Hydroxylase Alpha Polypeptide I (P4Ha1); Mouse Prolyl-4-Hydroxylase Alpha Polypeptide I (P4Ha1) ELISA Kit; Procollagen-Proline; 2-Oxoglutarate 4-Dioxygenase(Proline 4-Hydroxylase); Alpha Polypeptide I; P4Ha1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of P4Ha1. No significant cross-reactivity or interference between P4Ha1 and analogues was observed.
Sequence Length	534
Samples	Tissue homogenates or other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	0.312-20ng/mL
Sensitivity	<0.108ng/mL.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level P4Ha1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level P4Ha1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for P4Ha1 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of P4Ha1 in mouse tissue homogenates or other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to P4Ha1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to P4Ha1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain P4Ha1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of P4Ha1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	939699108
NCBI GeneID	18451
NCBI Accession #	NP_001303300.1
NCBI GenBank Nucleotide #	NM_001316371.1
UniProt Accession #	Q60715; Q3TEB7; Q80T05; Q91VJ7
Molecular Weight	60,886 Da
NCBI Official Full Name	prolyl 4-hydroxylase subunit alpha-1 isoform 2
NCBI Official Synonym Full Names	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha 1 polypeptide
NCBI Official Symbol	P4ha1
NCBI Official Synonym Symbols	P4ha; AL022634
NCBI Protein Information	prolyl 4-hydroxylase subunit alpha-1
UniProt Protein Name	Prolyl 4-hydroxylase subunit alpha-1
UniProt Gene Name	P4ha1
UniProt Synonym Gene Names	4-PH alpha-1

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/prolyl-4-hydroxylase-alpha-polypeptide-i-p4ha1/68638>