

Human Prolyl 4-Hydroxylase Subunit alpha-2 (P4HA2) ELISA Kit | P4HA2 elisa kit

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CATALOG #
AAA331493

REACTIVITY
Human

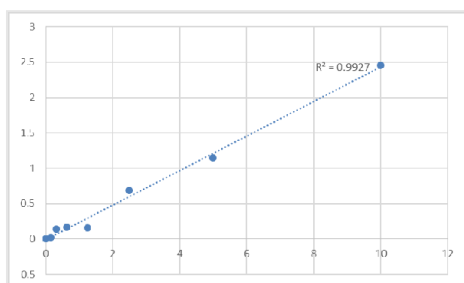
PRODUCT SYNONYMS

Prolyl 4-Hydroxylase Subunit alpha-2 (P4HA2); Human Prolyl 4-Hydroxylase Subunit alpha-2 (P4HA2) ELISA Kit; P4HA2; 4-PH alpha 2; C-P4Halp(II); OTTHUMP00000065966; OTTHUMP00000065969; collagen prolyl 4-hydroxylase alpha(II); procollagen-proline; 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase); alpha polypepti; P4HA2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Prolyl 4-hydroxylase subunit alpha-2 (P4HA2) ELISA Kit has high sensitivity and excellent specificity for detection of Human P4HA2. No significant cross-reactivity or interference between Human P4HA2 and analogues was observed.
Sequence Length	535
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. Human Prolyl 4-hydroxylase subunit alpha-2 (P4HA2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for P4HA2 elisa kit	Description: This Human Prolyl 4-hydroxylase subunit alpha-2 (P4HA2) ELISA Kit employs a two-site sandwich ELISA to quantitate P4HA2 in samples. An antibody specific for P4HA2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any P4HA2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for P4HA2 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 P4HA2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Prolyl 4-hydroxylase catalyzes the posttranslational formation of 4-hydroxyproline in collagens. The vertebrate enzyme is a tetramer of 2 alpha subunits and 2 beta subunits. The beta subunit (P4HB) is an unusual multifunctional polypeptide identical to protein disulfide isomerase. P4HA2 is one of at least 2 alpha subunit isoforms. This gene encodes a component of prolyl 4-hydroxylase, a key enzyme in collagen synthesis composed of two identical alpha subunits and two beta subunits. The encoded protein is one of several different types of alpha subunits and provides the major part of the catalytic site of the active enzyme. In collagen and related proteins, prolyl 4-hydroxylase catalyzes the formation of 4-hydroxyproline that is essential to the proper three-dimensional folding of newly synthesized procollagen chains.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	217272863
NCBI GeneID	8974
NCBI Accession #	NP_001136071.1
NCBI GenBank Nucleotide #	NP_001136071.1
UniProt Accession #	O15460
NCBI Official Full Name	prolyl 4-hydroxylase subunit alpha-2 isoform 1
NCBI Official Synonym Full Names	prolyl 4-hydroxylase subunit alpha 2
NCBI Official Symbol	P4HA2
NCBI Official Synonym Symbols	MYP25
NCBI Protein Information	prolyl 4-hydroxylase subunit alpha-2
UniProt Protein Name	Prolyl 4-hydroxylase subunit alpha-2
UniProt Gene Name	P4HA2
UniProt Synonym Gene Names	4-PH alpha-2
UniProt Entry Name	P4HA2_HUMAN

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.