

Human Pyrroline-5-Carboxylate Reductase 3 (PYCRL) ELISA Kit | PYCRL elisa kit

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CATALOG #
AAA331205

REACTIVITY
Human

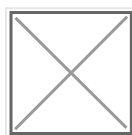
PRODUCT SYNONYMS

Pyrroline-5-Carboxylate Reductase 3 (PYCRL); Human Pyrroline-5-Carboxylate Reductase 3 (PYCRL) ELISA Kit; PYCRL; FLJ13852; PYCRL elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Pyrroline-5-carboxylate reductase 3 (PYCRL) ELISA Kit has high sensitivity and excellent specificity for detection of Human PYCRL. No significant cross-reactivity or interference between Human PYCRL and analogues was observed.
Sequence Length	286
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 Pyrroline-5-carboxylate reductase 3 (PYCRL) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PYCRL elisa kit	Description: This Human Pyrroline-5-carboxylate reductase 3 (PYCRL) ELISA Kit employs a two-site sandwich ELISA to quantitate PYCRL in samples. An antibody specific for PYCRL has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PYCRL present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PYCRL 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 PYCRL bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: PYCRL belongs to the pyrroline-5-carboxylate reductase family. Pyrroline-5-carboxylate reductase catalyzes the the NAD(P)H-dependent conversion of pyrroline-5-carboxylate to proline. Pyrroline-5-carboxylate reductase(P5CR) is the enzyme that catalyzes the terminal step in the biosynthesis of proline from glutamate, the NAD(P) dependent oxidation of 1-pyrroline-5-carboxylate into proline. Pyrroline-5-carboxylate reductase, which converts pyrroline-5-carboxylate to proline, has been identified in human erythrocytes. The level of pyrroline-5-carboxylate reductase activity in these cells is comparable to the activity levels of major erythrocyte enzymes. The physiologic function of the enzyme in erythrocytes cannot be related to its function in other tissues.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	198041662
NCBI GeneID	65263
NCBI Accession #	NP_075566.2
NCBI GenBank Nucleotide #	NP_075566.2
UniProt Accession #	Q53H96
NCBI Official Full Name	pyrroline-5-carboxylate reductase 3 isoform 1
NCBI Official Synonym Full Names	pyrroline-5-carboxylate reductase 3
NCBI Official Symbol	PYCR3
NCBI Official Synonym Symbols	PYCRL
NCBI Protein Information	pyrroline-5-carboxylate reductase 3
UniProt Protein Name	Pyrroline-5-carboxylate reductase 3
UniProt Gene Name	PYCRL
UniProt Synonym Gene Names	P5C reductase 3; P5CR 3
UniProt Entry Name	P5CR3_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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/pyrroline-5-carboxylate-reductase-3-pycri/331205>