

Human PYCR1 (Pyrroline-5-carboxylate reductase 1, mitochondrial) ELISA Kit | PYCR1 elisa kit

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CATALOG # AAA248925	REACTIVITY Human
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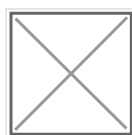
PRODUCT SYNONYMS

PYCR1 (Pyrroline-5-carboxylate reductase 1; mitochondrial); Human PYCR1 (Pyrroline-5-carboxylate reductase 1; mitochondrial) ELISA Kit; PYCR1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of PTPN22. No significant cross-reactivity or interference between PTPN22 and analogues was observed.
Sequence Length	319
Samples	Serum, Plasma, Tissue Homogenates And Other Biological Fluids
Assay Type	Sandwich
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 PTPN22 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 PTPN22 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



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PYCR1 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-PTPN22 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-PTPN22 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 PTPN22 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of PTPN22 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	533112488
NCBI GeneID	5831
NCBI Accession #	NP_001269209.1
NCBI GenBank Nucleotide #	NM_001282280.1
UniProt Accession #	P32322; Q6FHI4; Q96DI6; Q9HBQ4; A6NFM2; B4DMU0
Molecular Weight	33,341 Da
NCBI Official Full Name	pyrroline-5-carboxylate reductase 1, mitochondrial isoform 1
NCBI Official Synonym Full Names	pyrroline-5-carboxylate reductase 1
NCBI Official Symbol	PYCR1
NCBI Official Synonym Symbols	P5C; P5CR; PRO3; PYCR; PIG45; PP222; ARCL2B; ARCL3B
NCBI Protein Information	pyrroline-5-carboxylate reductase 1, mitochondrial
UniProt Protein Name	Pyrroline-5-carboxylate reductase 1, mitochondrial
UniProt Gene Name	PYCR1
UniProt Synonym Gene Names	P5C reductase 1; P5CR 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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/pycr1-pyrroline-5-carboxylate-reductase-1-mitochondrial/248925>