

Human Proline Dehydrogenase 1, Mitochondrial (PRODH) ELISA Kit | PRODH elisa kit

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CATALOG #
AAA331315

REACTIVITY
Human

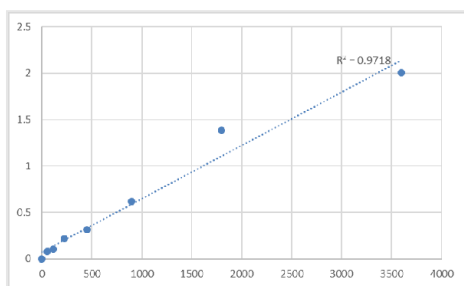
PRODUCT SYNONYMS

Proline Dehydrogenase 1; Mitochondrial (PRODH); Human Proline Dehydrogenase 1; Mitochondrial (PRODH) ELISA Kit; PRODH; FLJ33744; HSPOX2; MGC148078; MGC148079; PIG6; POX; PRODH1; PRODH2; SCZD4; TP53I6; proline dehydrogenase 1; proline oxidase 2; proline oxidase; mitochondrial; tumor protein p53 inducible protein 6; PRODH elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Proline dehydrogenase 1, mitochondrial (PRODH) ELISA Kit has high sensitivity and excellent specificity for detection of Human PRODH. No significant cross-reactivity or interference between Human PRODH and analogues was observed.
Sequence Length	600
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 Proline dehydrogenase 1, mitochondrial (PRODH) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PRODH elisa kit	Description: This Human Proline dehydrogenase 1, mitochondrial (PRODH) ELISA Kit employs a two-site sandwich ELISA to quantitate PRODH in samples. An antibody specific for PRODH has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PRODH present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRODH 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 PRODH bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: PRODH encodes a mitochondrial protein that catalyzes the first step in proline degradation. Mutations in PRODH are associated with hyperprolinemia type 1 and susceptibility to schizophrenia 4 (SCZD4). PRODH is located on chromosome 22q11.21, a region which has also been associated with the contiguous gene deletion syndromes, DiGeorge and CATCH22. Alternatively spliced transcript variants encoding different isoforms have been found for PRODH.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	183227691
NCBI GeneID	5625
NCBI Accession #	NP_057419.3
NCBI GenBank Nucleotide #	NP_057419.3
UniProt Accession #	O43272
NCBI Official Full Name	proline dehydrogenase, mitochondrial
NCBI Official Synonym Full Names	proline dehydrogenase 1
NCBI Official Symbol	PRODH
NCBI Official Synonym Symbols	POX; PIG6; HSPOX2; PRODH1; PRODH2; TP53I6
NCBI Protein Information	proline dehydrogenase 1, mitochondrial
UniProt Protein Name	Proline dehydrogenase 1, mitochondrial
UniProt Gene Name	PRODH
UniProt Synonym Gene Names	PIG6; POX2
UniProt Entry Name	PROD_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.