

Human Malate Dehydrogenase, Mitochondrial (MDH2) ELISA Kit | MDH2 elisa kit

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CATALOG #
AAA331829

REACTIVITY
Human

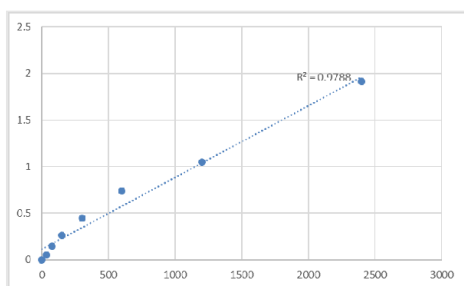
PRODUCT SYNONYMS

Malate Dehydrogenase; Mitochondrial (MDH2); Human Malate Dehydrogenase; Mitochondrial (MDH2) ELISA Kit; MDH2; M-MDH; MDH; MGC:3559; MOR1; mitochondrial malate dehydrogenase; MDH2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Malate dehydrogenase, mitochondrial (MDH2) ELISA Kit has high sensitivity and excellent specificity for detection of Human MDH2. No significant cross-reactivity or interference between Human MDH2 and analogues was observed.
Sequence Length	296
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 Malate dehydrogenase, mitochondrial (MDH2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for MDH2 elisa kit	Description: This Human Malate dehydrogenase, mitochondrial (MDH2) ELISA Kit employs a two-site sandwich ELISA to quantitate MDH2 in samples. An antibody specific for MDH2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MDH2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MDH2 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 MDH2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Malate dehydrogenase catalyzes the reversible oxidation of malate to oxaloacetate, utilizing the NAD/NADH cofactor system in the citric acid cycle. Malate dehydrogenase encoded by MDH2 is localized to the mitochondria and may play pivotal roles in the malate-aspartate shuttle that operates in the metabolic coordination between cytosol and mitochondria. Several transcript variants encoding different isoforms have been found for MDH2.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	538919685
NCBI GeneID	4191
NCBI Accession #	NP_001269332.1
NCBI GenBank Nucleotide #	NP_001269332.1
UniProt Accession #	P40926
NCBI Official Full Name	malate dehydrogenase, mitochondrial isoform 2
NCBI Official Synonym Full Names	malate dehydrogenase 2
NCBI Official Symbol	MDH2
NCBI Official Synonym Symbols	MDH; MOR1; M-MDH; EIEE51; MGC:3559
NCBI Protein Information	malate dehydrogenase, mitochondrial
UniProt Protein Name	Malate dehydrogenase, mitochondrial
UniProt Gene Name	MDH2
UniProt Entry Name	MDHM_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/malate-dehydrogenase-mitochondrial-mdh2/331829>