

Rat Malate dehydrogenase, mitochondrial (MDH2) ELISA Kit | MDH2 elisa kit

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CATALOG #
AAA245631

REACTIVITY
Rat

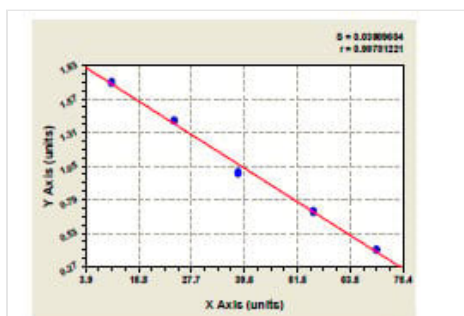
PRODUCT SYNONYMS

Malate dehydrogenase; mitochondrial (MDH2); Rat Malate dehydrogenase; mitochondrial (MDH2) ELISA Kit; MDH2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	0.5-10ng/mL
Sensitivity	0.1ng/ml
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



ADDITIONAL INFORMATION

Related Product Information for MDH2 elisa kit

Intended Uses: This MDH2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat MDH2.

Principle of the Assay: MDH2 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-MDH2 antibody and an MDH2-HRP conjugate. The assay sample and buffer are incubated together with MDH2-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the MDH2 concentration since MDH2 from samples and MDH2-HRP conjugate compete for the anti-MDH2 antibody binding site. Since the number of sites is limited, as more sites are occupied by MDH2 from the sample, fewer sites are left to bind MDH2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The MDH2 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	538919685
NCBI GeneID	4191
NCBI Accession #	NP_001269332.1
NCBI GenBank Nucleotide #	NM_001282403.1
Molecular Weight	30,875 Da
NCBI Official Full Name	malate dehydrogenase, mitochondrial isoform 2
NCBI Official Synonym Full Names	malate dehydrogenase 2, NAD (mitochondrial)
NCBI Official Symbol	MDH2
NCBI Official Synonym Symbols	MDH; MOR1; M-MDH; 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/rat-elisa-kits/malate-dehydrogenase-mitochondrial-mdh2/245631>