

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

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CATALOG #  
**AAA246350**

REACTIVITY  
**Canine**

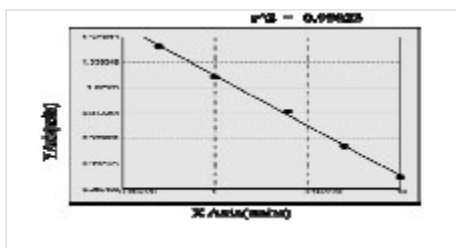
### PRODUCT SYNONYMS

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

### PRODUCT SPECIFICATIONS

|                         |                                                                            |
|-------------------------|----------------------------------------------------------------------------|
| Reactivity              | Canine                                                                     |
| Samples                 | Serum, plasma, cell culture supernatants, body fluid and tissue homogenate |
| Assay Type              | Competitive                                                                |
| Sensitivity             | 0.1 ng/mL.                                                                 |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                        |

### IMAGES



Standard Curve (Sample)

### 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 Canine MDH2. This ELISA kit for research use only!

**Principle of the Assay**||MDH2 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal 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 #                 | <a href="#">NP_001269332.1</a>                |
| NCBI GenBank Nucleotide #        | <a href="#">NM_001282403.1</a>                |
| 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                | <b>MDH2</b>                                   |
| 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/canine-elisa-kits/malate-dehydrogenase-mitochondrial-mdh2/246350>