

## Mouse 2-oxoglutarate dehydrogenase, mitochondrial (OGDH) ELISA Kit | OGDH elisa kit

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CATALOG #  
**AAA246860**

REACTIVITY  
**Mouse**

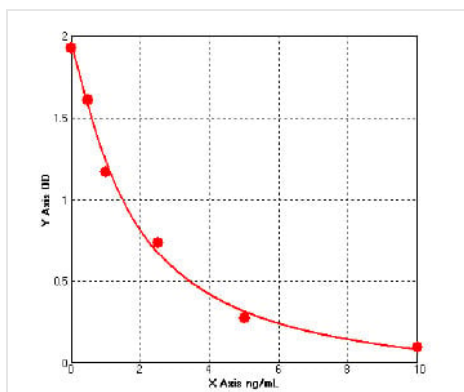
### PRODUCT SYNONYMS

2-oxoglutarate dehydrogenase; mitochondrial (OGDH); Mouse 2-oxoglutarate dehydrogenase; mitochondrial (OGDH) ELISA Kit; OGDH elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                                                                                                                                                                                                                                                    |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of OGDH. No significant cross-reactivity or interference between OGDH and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between OGDH and all the analogues, therefore, cross reaction may still exist in some cases. |
| Assay Type              | Quantitative Competitive                                                                                                                                                                                                                                                                                                                                                                 |
| Samples                 | Serum, plasma, cell culture supernatants, body fluid and tissue homogenate                                                                                                                                                                                                                                                                                                               |
| 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 OGDH elisa kit | <p>Principle of the Assay: OGDH ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-OGDH antibody and an OGDH-HRP conjugate. The assay sample and buffer are incubated together with OGDH-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 OGDH concentration since OGDH from samples and OGDH-HRP conjugate compete for the anti-OGDH antibody binding site. Since the number of sites is limited, as more sites are occupied by OGDH from the sample, fewer sites are left to bind OGDH-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The OGDH concentration in each sample is interpolated from this standard curve.</p> <p>Intended Uses: This OGDH ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Mouse OGDH. This ELISA kit for research use only, not for therapeutic or test applications!</p> |
| Product Categories/Family for OGDH elisa kit   | Cardiovascular                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 51873038                                                                                                                                                                                |
| NCBI GeneID                      | 4967                                                                                                                                                                                    |
| NCBI Accession #                 | NP_001003941.1                                                                                                                                                                          |
| NCBI GenBank Nucleotide #        | NM_001003941.2                                                                                                                                                                          |
| Molecular Weight                 | 48,180 Da                                                                                                                                                                               |
| NCBI Official Full Name          | 2-oxoglutarate dehydrogenase, mitochondrial isoform 2                                                                                                                                   |
| NCBI Official Synonym Full Names | oxoglutarate (alpha-ketoglutarate) dehydrogenase (lipoamide)                                                                                                                            |
| NCBI Official Symbol             | OGDH                                                                                                                                                                                    |
| NCBI Official Synonym Symbols    | E1k; OGDC; AKGDH                                                                                                                                                                        |
| NCBI Protein Information         | 2-oxoglutarate dehydrogenase, mitochondrial; OGDC-E1; oxoglutarate decarboxylase; 2-oxoglutarate dehydrogenase complex component E1; oxoglutarate dehydrogenase (succinyl-transferring) |
| UniProt Protein Name             | 2-oxoglutarate dehydrogenase, mitochondrial                                                                                                                                             |
| UniProt Gene Name                | OGDH                                                                                                                                                                                    |
| UniProt Synonym Gene Names       | OGDC-E1                                                                                                                                                                                 |
| UniProt Entry Name               | ODO1_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.