

## Datasheet for ABIN5652334 **BCKDK ELISA Kit**



Overview

| Quantity:                | 96 tests               |
|--------------------------|------------------------|
| Target:                  | BCKDK                  |
| Reactivity:              | Rat                    |
| Method Type:             | Sandwich ELISA         |
| Detection Range:         | 3.12 ng/mL - 200 ng/mL |
| Minimum Detection Limit: | 3.12 ng/mL             |
| Application:             | ELISA                  |

## Product Details

| Sample Type:       | Cell Lysate, Tissue Homogenate  |
|--------------------|---|
| Analytical Method: | Quantitative  |
| Detection Method:  | Colorimetric  |
| Specificity:       | This assay has high sensitivity and excellent specificity for detection of Branched Chain Alpha-<br>Ketoacid Dehydrogenase Kinase (BCKDK). No significant cross-reactivity or interference<br>between Branched Chain Alpha-Ketoacid Dehydrogenase Kinase (BCKDK) and analogues was<br>observed. |
| Sensitivity:       | 1.29 ng/mL  |

## Target Details

| Target:           | BCKDK   |
|-------------------|---|
| Alternative Name: | Branched Chain Alpha-Ketoacid Dehydrogenase Kinase (BCKDK Products) |

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| Target Details |  |
|----------------|--|
| Background:    | Gene Name: Branched Chain Alpha-Ketoacid Dehydrogenase Kinase<br>Gene Aliases: BCKDHKIN, 3-Methyl-2-Oxobutanoate Dehydrogenase/Lipoamide |
|                | Kinase,Mitochondrial   |
| Gene ID:       | 29603  |
| UniProt:       | Q00972   |
| Pathways:      | SARS-CoV-2 Protein Interactome   |

## Application Details

| Comment:         | The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5 % within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.   |
|------------------|--|
| Assay Time:      | 3 h  |
| Plate:           | Pre-coated   |
| Protocol:        | The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate<br>provided in this kit has been pre-coated with an antibody specific to Branched Chain Alpha-<br>Ketoacid Dehydrogenase Kinase (BCKDK). Standards or samples are then added to the<br>appropriate microtiter plate wells with a biotin-conjugated antibody specific to Branched Chain<br>Alpha-Ketoacid Dehydrogenase Kinase (BCKDK). Next, Avidin conjugated to Horseradish<br>Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution<br>is added, only those wells that contain Branched Chain Alpha-Ketoacid Dehydrogenase Kinase<br>(BCKDK), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in<br>color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution<br>and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm.<br>The concentration of Branched Chain Alpha-Ketoacid Dehydrogenase Kinase (BCKDK) in the<br>samples is then determined by comparing the 0.D. of the samples to the standard curve. |
| Assay Precision: | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level<br>Branched Chain Alpha-Ketoacid Dehydrogenase Kinase (BCKDK) were tested 20 times on one<br>plate, respectively<br>Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level<br>Branched Chain Alpha-Ketoacid Dehydrogenase Kinase (BCKDK) were tested on 3 different<br>plates, 8 replicates in each plate. CV(%) = SD/meanX100   |

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| Application Details |  |
|---------------------|--|
|                     | Intra-Assay: CV<10%  |
|                     | Inter-Assay: CV<12%  |
| Restrictions:       | For Research Use only  |
| Handling            |  |
| Handling Advice:    | The Stop Solution is acidic. Do not allow to contact skin or eyes. Calibrators, controls and specimen samples should be assayed in duplicate. Once the procedure has been started, all                                       |
|                     | steps should be completed without interruption.  |
| Storage:            | 4 °C,-20 °C  |
| Storage Comment:    | -20°C. Bring all reagents to room temperature before beginning test. The kit may be stored at 4°C for immediate use within two days upon arrival. Reseal any unused strips with desiccant pack. Minimize freeze/thaw cycles. |
| Expiry Date:        | 4-8 months   |