

## Rat GAD1 (Glutamate Decarboxylase 1, Brain) ELISA kit

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This kit applies sandwich ELISA method for the quantitative detection of GAD1 (Glutamate Decarboxylase 1, Brain) in rat samples. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Rat GAD1. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Rat GAD1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Rat GAD1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm  $\pm$ 10nm. The concentration of Rat GAD1 in the samples is then determined by comparing the OD of the samples to the standard curve.

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|----------------------|---------------------------------------------------------------------------------------|
| Catalog No.          | 3037508                                                                               |
| Size                 | 96-Wells                                                                              |
| Product Category     | ELISA (Quantitative)                                                                  |
| Reactivity           | Rat                                                                                   |
| Sample               | Tissue Homogenates; Cell Lysates; Cell Culture Supernates;<br>Other Biological Fluids |
| Assay Method         | Sandwich ELISA                                                                        |
| Assay Duration       | 3.5 hours                                                                             |
| Sensitivity          | 0.27 ng/mL                                                                            |
| Standard Curve Range | 0.79-50 ng/mL                                                                         |
| Storage/Stability    | -20°C/1 year; 4°C/6 months                                                            |

