

Product Datasheet

Human Anti-Glutamate Decarboxylase 65 Autoantibodies (Anti-GAD65) ELISA Kit (orb2308011)

Catalog Number orb2308011

Category Assays and Kits

Description The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Human Anti-GAD65. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Human Anti-GAD65. 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 Human Anti-GAD65, 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 $450\text{nm} \pm 10\text{nm}$. The concentration of Human Anti-GAD65 in the samples is then determined by comparing the OD of the samples to the standard curve.

Reactivity Human

Concentration 250 IU/mL

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Application notes

standard: 250 IU/mL. Test principle: The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Human Anti-GAD65. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Human Anti-GAD65. 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 Human Anti-GAD65, 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 Human Anti-GAD65 in the samples is then determined by comparing the OD of the samples to the standard curve

Assay Type

Sandwich

Assay Time

3.5h

Range

3.91-250 IU/mL

Sensitivity

1.26 IU/mL

Sample Types

tissue homogenates, cell lysates, cell culture supernates and other biological fluids

Note

For research use only

Expiration Date

6 months from date of receipt.

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