

Product Datasheet

Chicken Glutathione Peroxidase 4 (GPX4) ELISA Kit (orb1146841)

Catalog Number orb1146841

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 Glutathione Peroxidase 4(GPX4). Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Glutathione Peroxidase 4(GPX4). 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 Glutathione Peroxidase 4(GPX4), 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 Glutathione Peroxidase 4(GPX4) in the samples is then determined by comparing the OD of the samples to the standard curve.

Reactivity Gallus

Concentration 2000 pg/mL

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Application notes

standard: 2000 pg/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 Chicken GPX4. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Chicken GPX4. 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 Chicken GPX4, 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 Chicken GPX4 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

31.25-2000 pg/mL

Sensitivity

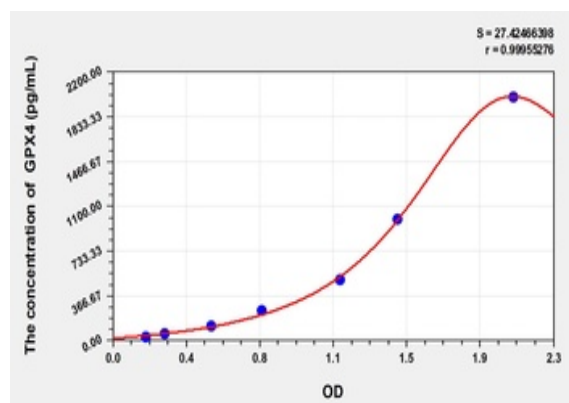
7.2 pg/mL

Sample Types

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

Note

For research use only



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