

Product Datasheet

Mouse Aldose Reductase (AKR1B1) ELISA Kit (orb1736582)

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 Mouse AKR1B1. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Mouse AKR1B1. 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 Mouse AKR1B1, 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 Mouse AKR1B1 in the samples is then determined by comparing the OD of the samples to the standard curve.

Reactivity

Mouse

Range

15.63-1000 pg/mL

Concentration

1000 pg/mL

Note

For research use only

Application notes

standard: 1000 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 Mouse AKR1B1. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Mouse AKR1B1. 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 Mouse AKR1B1, 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 Mouse AKR1B1 in the samples is then determined by comparing the OD of the samples to the standard curve

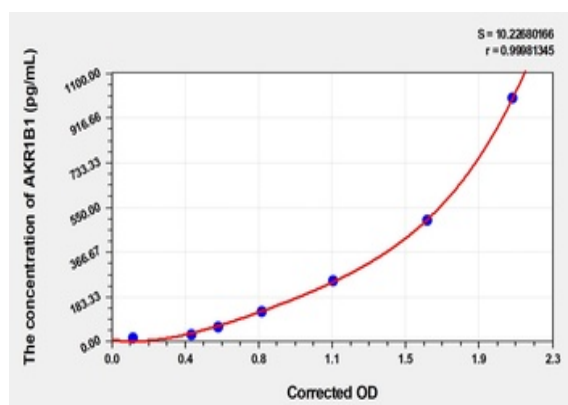
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Sample Types	Serum, plasma, tissue homogenates and other biological fluids.
Assay Time	3.5h
Uniprot ID	P45376
Sensitivity	6.31 pg/mL
Expiration Date	Please enquire.

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