

Product Datasheet

Human Alpha-ketoglutaRate-dependent Dioxygenase FTO (FTO) ELISA Kit (orb1146851)

Catalog Number orb1146851

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 Alpha-ketoglutaRate-dependent dioxygenase FTO(FTO). Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Alpha-ketoglutaRate-dependent dioxygenase FTO(FTO). 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 Alpha-ketoglutaRate-dependent dioxygenase FTO(FTO), 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 Alpha-ketoglutaRate-dependent dioxygenase FTO(FTO) in the samples is then determined by comparing the OD of the samples to the standard curve.

Reactivity Human

Concentration 10 ng/mL

UniProt ID **Q9C0B1**

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Application notes

standard: 10 ng/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 FTO. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Human FTO. 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 FTO, 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 FTO 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

0.16-10 ng/mL

Sensitivity

0.057 ng/mL

Sample Types

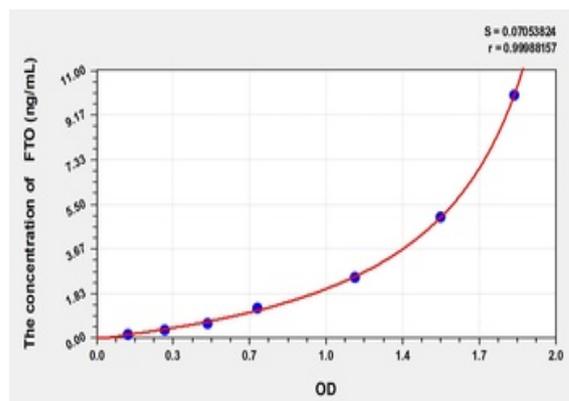
serum, plasma and other biological fluids

Note

For research use only

Expiration Date

Please enquire.

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