

## Product Datasheet

# Human Serine/threonine-protein kinase mTOR (MTOR) ELISA Kit (orb1088252)

**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 Serine/threonine-protein kinase mTOR(MTOR). Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Serine/threonine-protein kinase mTOR(MTOR). 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 Serine/threonine-protein kinase mTOR(MTOR), 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 Serine/threonine-protein kinase mTOR(MTOR) in the samples is then determined by comparing the OD of the samples to the standard curve.

**Reactivity**

Human

**Range**

0.32-20 ng/mL

**Concentration**

20 ng/mL

**Note**

For research use only

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## Application notes

standard: 20 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 MTOR. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Human MTOR. 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 MTOR, 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 MTOR in the samples is then determined by comparing the OD of the samples to the standard curve

## Sample Types

serum, plasma, tissue homogenates and other biological fluids

## Assay Time

3.5h

## Uniprot ID

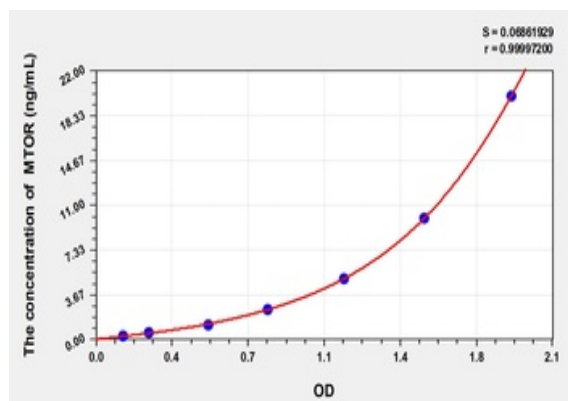
**P42345**

## Sensitivity

0.127 ng/mL

## Expiration Date

Please enquire.



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