

## Product Datasheet

# Mouse Tumor Necrosis Factor Alpha (TNF $\alpha$ ) Microsample ELISA Kit (orb1736444)

**Catalog Number** orb1736444

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

**Reactivity** Mouse

**Concentration** 1000 pg/mL

**UniProt ID** **P06804**

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### Application notes

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 TNFa. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Mouse TNFa. 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 TNFa, 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 TNFa 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

15.63-1000 pg/mL

### Sensitivity

6.3 pg/mL

### Sample Types

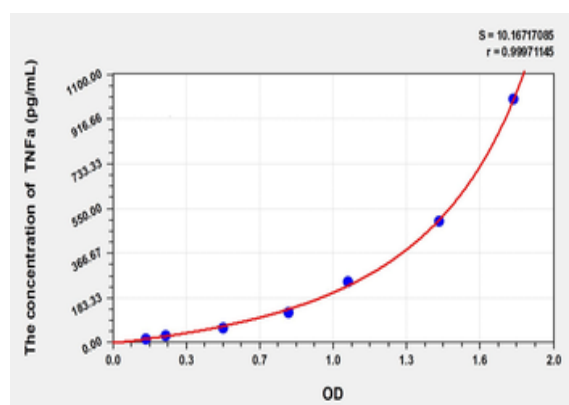
serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids

### Note

For research use only

### Expiration Date

6 months from date of receipt.



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