

## Product Datasheet

# Mouse Signal Transducer and Activator of Transcription 4 (STAT4) ELISA Kit (orb1146914)

**Catalog Number** orb1146914

**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 Signal Transducer And Activator Of Transcription 4(STAT4). Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Signal Transducer And Activator Of Transcription 4(STAT4). 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 Signal Transducer And Activator Of Transcription 4(STAT4), 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 Signal Transducer And Activator Of Transcription 4(STAT4) in the samples is then determined by comparing the OD of the samples to the standard curve.

**Reactivity** Mouse

**Concentration** 20 ng/mL

**UniProt ID** **P42228**

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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 Mouse STAT4. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Mouse STAT4. 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 STAT4, 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 ± 10nm. The concentration of Mouse STAT4 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**

0.32-20 ng/mL

**Sensitivity**

0.103 ng/mL

**Sample Types**

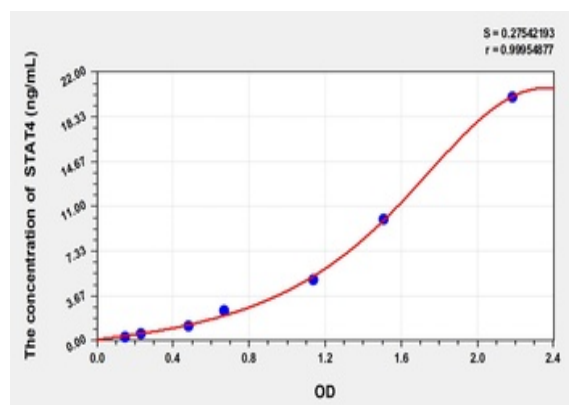
Tissue homogenates, cell lysates and other biological fluids

**Note**

For research use only

**Expiration Date**

Please enquire.



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