

ELISA Kit for Thyroid Peroxidase (TPO) Catalog No: tcue99

Available Sizes

Size: 96T

Specifications

Research Area:

Enzyme & Kinase; Endocrinology; Hormone metabolism;

Species Reactivity: Homo sapiens (Human)

Sample Type: Tissue homogenates and other biological fluids.

Sensitivity:

The minimum detectable dose of this kit is typically less than 0.112ng/mL

Detection Range:

0.312-20ng/mL

Assay Time:

3h

Detection Method:

Enzyme-linked immunosorbent assay for Antigen Detection.

Tested Application:

ELISA

SwissProt:

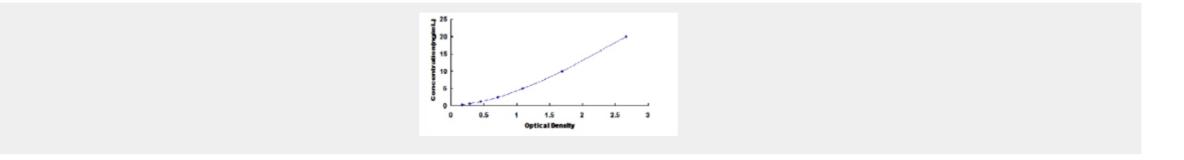
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Test Principle

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 Thyroid Peroxidase (TPO). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Thyroid Peroxidase (TPO). 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 Thyroid Peroxidase (TPO), 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 ± 10 nm. The concentration of Thyroid Peroxidase (TPO) in the samples is then determined by comparing the O.D. of the samples to the standard curve.



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