



Human soluble transferrin receptor,sTfR ELISA Kit

Product Code	CSB-E09100h
Abbreviation	sTfR
Target Name	soluble transferrin receptor,sTfR
Uniprot No.	P02786
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma
Detection Range	Request Information
Sensitivity	Request Information
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Others
Quality Control	<p>A microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 600 nm or 630 nm.</p> <p>An incubator can provide stable incubation conditions up to 37°C±5°C.</p> <p>Centrifuge</p> <p>Vortex</p> <p>Squirt bottle, manifold dispenser, or automated microplate washer</p> <p>Absorbent paper for blotting the microtiter plate</p> <p>50-300ul multi-channel micropipette</p> <p>Pipette tips</p> <p>Single-channel micropipette with different ranges</p> <p>100ml and 500ml graduated cylinders</p> <p>Deionized or distilled water</p> <p>Timer</p> <p>Test tubes for dilution</p>
Gene Names	TFRC
Tag Info	quantitative
Protein Description	Sandwich
Component	<p>A micro ELISA plate ---The 96-well plate has been pre-coated with an anti-human sTfR antibody.</p> <p>Six vials standard (5 ml/bottle) ---Dilute a bottle of the standard at dilution series, read the OD values, and then draw a standard curve.</p> <p>One vial HRP-conjugated sTfR antibody (6 ml/bottle) ---Bind to the C-Peptide in the samples or standards and react with the substrate to make the solution</p>



chromogenic.

Substrate A (1 x 7 ml)

Substrate B (1 x 7 ml)

Four Adhesive Strips (For 96 wells) ---Cover the microplate when incubation.

An instruction manual

Description

The Human soluble transferrin receptor (sTfR) ELISA kit is a sandwich immunoassay specifically designed and validated for the quantitative detection of sTfR in the serum and plasma. It is not intended for diagnostic use and only used for scientific research in humans. The kit has undergone rigorous quality control in multiple parameters, including sensitivity, specificity, precision, and inter-batch difference. Refer to the product instructions for more details.

This assay employs the quantitative sandwich enzyme immunoassay technique, in which sTfR in the samples or standards are sandwiched between pre-coated sTfR antibody and HRP-conjugated sTfR antibody. Following a wash to remove any unbound reagent, the TMB substrate solution is added to the wells and color develops in proportion to the amount of sTfR bound in the initial step. The color development is stopped upon adding the stop solution, and the intensity of the color is measured at 450 nm via a microplate reader. The levels of sTfR in the samples can be determined by referring to the O.D. (optical density) of the samples to the standard curve.

sTfRs are blood proteins with increased expression in iron deficiency. It is the receptor for transferrin that binds to and carries iron to tissues and cells throughout the body. The measurement of sTfR levels can help to evaluate iron deficiency and diagnose iron-deficiency anemia. To increase sensitivity and specificity, iron status, including ferritin, TIBC, serum iron, and other relative tests are recommended to be performed along with the sTfR test.

Product Precision

Linearity

Recovery

Typical

Msds

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{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E09100h.pdf","filename":"MSDS"}}
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