

IRON METABOLISM

Immunoassays

HUMAN sTfR ELISA

Cat. No.: RD194011100

IVD CE

Intended use

The RD194011100 Human sTfR ELISA is a sandwich enzyme immunoassay for the quantitative measurement of human soluble transferrin receptor in serum and plasma.

- The total assay time is less than 3 hours
- The kit measures total soluble transferrin receptor in serum, plasma (EDTA, citrate, heparin)
- Assay format is 96 wells
- Quality Controls are human serum based
- Standard is natural human blood isolated sTfR based
- Components of the kit are provided ready to use or concentrated

Clinical application

- Iron metabolism

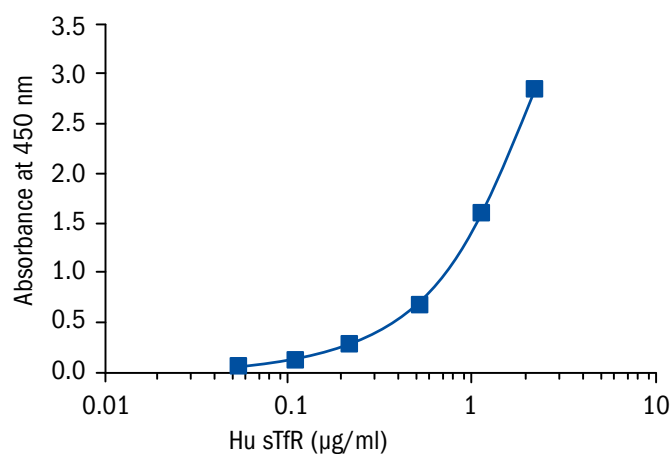
Test principle

In the BioVendor Human sTfR ELISA, standards, quality controls and samples are incubated in microplate wells pre-coated with monoclonal anti-human sTfR antibody. After 60 minutes incubation and washing, monoclonal anti-human sTfR antibody, conjugated with horseradish peroxidase (HRP) is added to the wells and incubated for 60 minutes with captured sTfR. Following another washing step, the remaining HRP conjugate is allowed to react with the substrate solution (TMB).

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Assay format	Sandwich ELISA, HRP-labelled antibody, 96 wells/kit
Samples	Serum, Plasma (EDTA, citrate, heparin)
Controls	QC-Low, QC-High
Standards	0.05 to 2 µg/ml
Limit of detection	2 ng/ml
Cross-reactivity	Goat, Monkey, Pig



The reaction is stopped by addition of acidic solution and absorbance of the resulting yellow product is measured. The absorbance is proportional to the concentration of sTfR. A standard curve is constructed by plotting absorbance values against concentrations of standards, and concentrations of unknown samples are determined using this standard curve.

Summary of protocol

- Warm-up the Dilution Buffer to 25–30°C
- Dilute Standards 10× and dilute samples and QCs 50×
- Add 100 µl Standards, QCs and samples
- Incubate at 25–30°C for 1 hour/300 rpm
- Wash plate 3 times
- Add 100 µl Conjugate Solution
- Incubate at 25–30°C for 1 hour/300 rpm
- Wash plate 3 times
- Add 100 µl Substrate Solution
- Incubate at RT for 10 min
- Add 100 µl Stop Solution
- Read absorbance and calculate results

Related products

- sTfR Human, Mouse Monoclonal Antibody, Clone: TFR-01 RD182011110-01

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