

## **HBT ELISA TEST KITS FOR HUMAN SOLUBLE TNF RECEPTORS**

The Hbt Human Soluble TNF Receptor kits have been developed for the quantitative measurement of natural and recombinant Human sTNF-R I and Human sTNF-R II in serum, plasma and culture medium.

### **PRINCIPLE OF THE TEST**

The Hbt Human sTNF Receptor ELISA test kits are solid-phase enzyme-linked immunosorbent assays based on the sandwich principle. Samples and standards are incubated in microtiter wells coated with antibodies recognizing Human sTNF-Receptor I or II. During this incubation human sTNF Receptor is captured by the solid bound antibody. Unbound material present in the sample is removed by washing. Next biotinylated second antibody (tracer) to human sTNF-R I or II is added to the wells. If human sTNF-R I or II was present in the sample, the tracer antibodies will bind to the captured sTNF receptor. The excess tracer is removed by washing. Next a streptavidin-peroxidase conjugate is applied to the wells, this conjugate reacts specifically with the biotinylated tracer antibody bound onto the detected sTNF Receptor. The excess streptavidin-peroxidase conjugate is removed by washing and substrate, tetramethylbenzidine (TMB) is added to the wells. Colour develops proportionally to the amount of human sTNF-R I or II present in the sample. The enzyme reaction is stopped by the addition of citric acid and the absorption at 450 nm is measured with a spectrophotometer. A standard curve is obtained by plotting the absorptions versus the corresponding concentrations of the known standards. The human sTNF-R I or II concentration of samples with unknown concentrations, which are run concurrently with the standards, can be determined from the standard curve.

### **SPECIAL FEATURES OF THE KIT**

- Ready-to-use (ie. pre-coated microwells).
- High specificity.
- High reproducibility.
- High sensitivity. The minimum concentration which can be measured is 25 pg/ml of soluble TNF receptor I and II.
- Large measurable concentration range. Standard curve from 25-1,000 pg/ml.
- Efficient format. Two plates with twelve 8-well strips each allow free choice of batch size for the assay.
- Simple, rapid procedure. Four pipetting steps are required to complete the assay. Working time 4½ hours.

### **AVAILABILITY**

The Hbt Human soluble TNF receptor tests are available in kits for 2 x 96 determinations.

<b>PRODUCT NUMBER: HK301</b>	Hbt Human sTNF-R I ELISA Kit
<b>PRODUCT NUMBER: HK302</b>	Hbt Human sTNF-R II ELISA Kit
<b>PRODUCT NUMBER: HK303</b>	Hbt Human sTNF-R I and II TWIN ELISA Kit, 96 determination for each Human sTNF-R I and II.

For research purposes only.  
Caution: Not for use in humans.