

## **HBT ELISA TEST KITS FOR HUMAN SOLUBLE ICAM-1**

The Hbt Human soluble ICAM-1 kits have been developed for the quantitative measurement of natural and recombinant Human soluble ICAM-1 in human serum, plasma or tissue culture medium.

### **PRINCIPLE OF THE TEST**

The Hbt Human soluble ICAM-1 ELISA test kit is a solid-phase enzyme-linked immunosorbent assay based on the sandwich principle. Samples and standards are incubated in microtiter wells coated with antibodies recognizing Human soluble ICAM-1. During this incubation Human soluble ICAM-1 is captured by the solid bound antibody. Unbound material present in the sample is removed by washing. Next biotinylated second antibody (tracer) to Human soluble ICAM-1 is added to the wells. If Human soluble ICAM-1 was present in the sample, the tracer antibodies will bind to the captured soluble ICAM-1. 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 soluble ICAM-1. 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 soluble ICAM-1 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 soluble ICAM-1 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 100 pg/ml of soluble ICAM-1.
- Large measurable concentration range. Standard curve from 100 - 10,000 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 ICAM-1 tests are available in kits for 2 x 96 determinations.

**PRODUCT NUMBER: HK304** (Hbt Human soluble ICAM-1 ELISA Kit)

For research purposes only.

Caution: Not for use in humans.