

U-CyTech BV

Yalelaan 48
3584 CM Utrecht
The Netherlands
P +31.30.253 5960
F +31.30.253 9344
INFO@ucytech.com
www.ucytech.com

Data sheet Rat TNF- α ELISA antibody pair; 10-plate format

Cat. No.: CT704-10

Coating antibodies (2 vials)

Product: Monoclonal antibody to rat tumor necrosis factor alpha (TNF- α)
Isotype: Hamster IgG
Production: *In vitro* using serum free medium
Purification: Ammonium sulphate precipitation and DEAE ion-exchange chromatography
Buffer: Prior to lyophilization: 0.25 ml PBS + 125 mM trehalose
Application: Inject 0.25 ml distilled water into the vial and dilute 100 times in PBS. The content of one vial is sufficient for five 96-well ELISA plates (480 determinations; 50 μ l/well).

Detection antibodies (2 vials)

Product: Biotinylated polyclonal antibody to rat tumor necrosis factor alpha (TNF- α)
Isotype: Rabbit IgG
Purification: Ammonium sulphate precipitation, protein A- and ligand-affinity chromatography
Labeling: With Biotin-7-NHS (N-hydroxysuccinimide)
Buffer: Prior to lyophilization: 0.5 ml PBS + 1% BSA + 125 mM trehalose
Application: Inject 0.5 ml distilled water into the vial and dilute 100 times in PBS + 0.5% BSA + 0.05% Tween-20. The content of one vial is sufficient for five 96-well ELISA plates (480 determinations; 100 μ l/well).

Standards (5 vials)

Product: CHO-derived recombinant rat tumor necrosis factor alpha (TNF- α)
Application: Cytokine standard in an ELISA system
Reconstitution: Dissolve the contents of one vial by injection of 0.5 ml distilled water into the vial. Use immediately.

Conjugate (2 vials)

Product: SPP conjugate (Streptavidin-HRP)
Application: Inject 0.5 ml distilled water into the vial and dilute 100 times in PBS + 0.5% BSA + 0.05% Tween-20. The content of one vial is sufficient for five 96-well ELISA plates (480 determinations; 100 μ l/well).
The product should be used in combination with TMB substrate.

General

Sensitivity: 2 pg/ml
Specificity: Validated for detecting natural and recombinant rat TNF- α
Sterility: Membrane filtered (0.2 μ m)
Stability: Lyophilized SPP conjugate is stable for at least one year at -20°C in the dark, the other lyophilized products are stable for at least one year at 4°C.
After reconstitution, the antibodies are stable for one year at 4°C (if kept sterile) and SPP for minimal one year at -20°C in the dark. The reconstituted standard preparation should be used immediately.
References: Haerter, K. *et al.* 2004. J. Neuroimmun. 146: 126-132
Teunis, M.A.T. *et al.* 2002. J. Neuroimmun. 133: 30-38
Vreugdenhil, H.A. *et al.* 2003. Intensive Care Med. 29: 915-922