

# U-CyTech BV

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## Data sheet Human TNF- $\alpha$ ELISA antibody pair; 20-plate format

Cat. No.: CT747-20

### Coating antibodies (4 vials)

Product: Monoclonal antibody to human tumor necrosis factor alpha (TNF- $\alpha$ )  
Isotype: Mouse IgG<sub>1</sub>  
Production: *In vitro* using serum free medium  
Purification: 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  $\mu$ l/well).

### Detection antibodies (4 vials)

Product: Biotinylated monoclonal antibody to human tumor necrosis factor alpha (TNF- $\alpha$ )  
Isotype: Mouse IgG<sub>1</sub>  
Production: *In vitro* using serum free medium  
Purification: Ion exchange 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  $\mu$ l/well).

### Standards (10 vials)

Product: Recombinant human tumor necrosis factor alpha (TNF- $\alpha$ )  
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 (4 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  $\mu$ l/well).  
The product should be used in combination with TMB substrate.

### General

Sensitivity: 1 pg/ml  
Specificity: Validated for detecting natural and recombinant human TNF- $\alpha$   
Sterility: Membrane filtered (0.2  $\mu$ 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 more than 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: Iyer, A.W. *et al.* 2007. Hum. Pathol. 38: 1065-1073  
Milikan, J.C.M. *et al.* 2007. Invest. Ophthalmol. Vis. Sci. 48: 3689-3697