

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

Cat. No.: CT747-10

Coating antibodies (2 vials)

Product: Monoclonal antibody to human tumor necrosis factor alpha (TNF- α)
Isotype: Mouse IgG₁
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; 80 μ l/well).

Detection antibodies (2 vials)

Product: Biotinylated monoclonal antibody to human tumor necrosis factor alpha (TNF- α)
Isotype: Mouse IgG₁
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 total amount of one vial is sufficient for five 96-well ELISA plates (480 determinations; 100 μ l/well).

Standards (5 vials)

Product: Recombinant human 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: 1 pg/ml
Specificity: Validated for detecting natural and recombinant human 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 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