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Data sheet Human IL-4 ELISA antibody pair; 20-plate format

Cat. No.: CT742-20

Coating antibodies (4 vials)

Product: Monoclonal antibody to human interleukin 4 (IL-4)
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; 50 µl/well).

Detection antibodies (4 vials)

Product: Biotinylated monoclonal antibody to human interleukin 4 (IL-4)
Isotype: Rat IgG₁
Production: *In vitro* using serum free medium
Purification: Protein G-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 µl/well).

Standards (10 vials)

Product: Recombinant human interleukin 4 (IL-4)
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 µl/well).
The product should be used in combination with TMB substrate.

General

Sensitivity: 0.5 pg/ml
Specificity: Validated for detecting natural and recombinant human IL-4
Sterility: Membrane filtered (0.2 µm)
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.M. *et al.* 2007. Hum. Pathol. 38: 1065-1073
Milikan, J.C.M. *et al.* 2007. Invest. Ophthalmol. Vis. Sci. 48: 3689-3697