

## Data sheet Human IL-31 ELISA antibody pair; 20-plate format

Cat. No.: CT570-20

### Coating antibodies (4 vials)

**Product:** Monoclonal antibody to human interleukin 31 (IL-31)  
**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; 80 µl/well).

### Detection antibodies (4 vials)

**Product:** Biotinylated monoclonal antibody to human interleukin 31 (IL-31)  
**Isotype:** Mouse IgG<sub>2b</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 µl/well).

### Standards (10 vials)

**Product:** Recombinant human interleukin 31 (IL-31)  
**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:** 32 pg/ml  
**Specificity:** Validated for detecting natural and recombinant human IL-31 in supernatant  
**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.