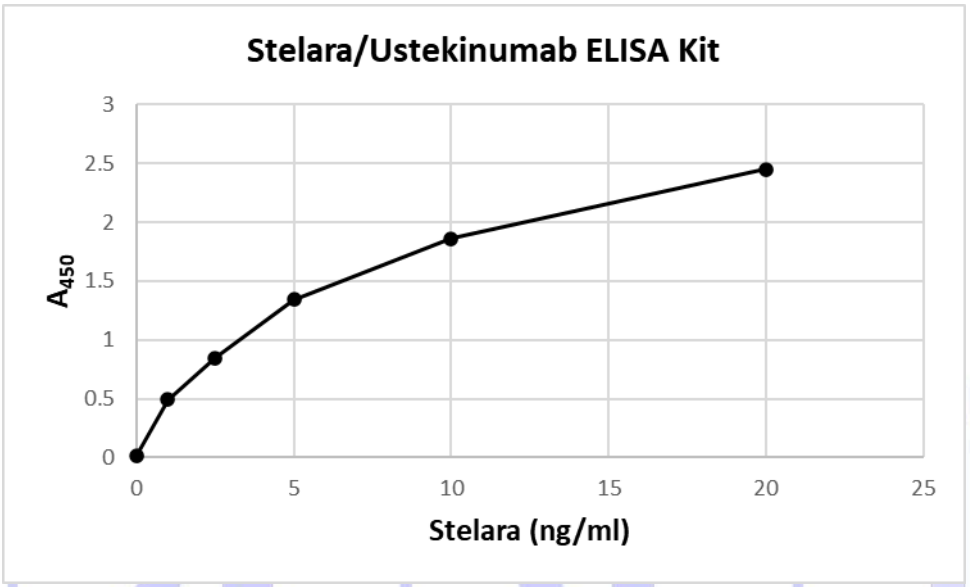
ALPHA DIAGNOSTIC INTERNATIONAL

Stelara/Usetekinumab ELISA Kit Cat# 200-910-STL

The Stelara ELISA Kit is a highly sensitive indirect ELISA for the measurement of Stelara in serum, plasma, cell culture supernatants, and other appropriately qualified matrices



Stelara (ng/ml)	0	1	2.5	5	10	20
A_{450}	0.014	0.495	0.844	1.341	1.862	2.450

Stelara ELISA Kit features

- rHu IL12 p40 pre-coated plate, ready-to-use 96-well breakable strip plate, suitable for multiple runs over 6-12 months
- Pre-diluted Stelara standards
- **Assay length**: 1 hour &45 minutes, 3 incubation steps at room temperature
- **Dynamic range**: 1-20 ng/ml
- **Sensitivity:** ~20 pg/ml
- **Storage:** 2-8ºC (whole kit)
- **Shelf life**: 6-12 months

Contains all necessary reagents
For in vitro research use only

Assay Procedure: Allow all reagents to reach room temperature. Arrange and label required number of strips.

Step 1. Pipette 100 µl of standards and appropriately diluted samples and incubate for 1 hour at room temperature.
Step 2. Wash the wells 3X with 300 µl of wash buffer per well
Step 3 Add 100 µ of HRP conjugated detection antibody to each well and incubate for 30 minutes at room temperature
Step 4 Wash the plate 5X with 300 ul of wash buffer per well.
Step 5. Add 100 µl of TMB Substrate solution to all wells, mix gently, and incubate at room temperature for 15 minutes.
Step 6. Pipette 100 µl of stop solution into each well and mix gently. Measure at 450 nm w/ 630 nm as a reference filter if available.

Performance Characteristics

Sensitivity: ~20 pg/ml
Average recovery: 104.96%
Average linearity: 106.9%
Precision: Intra-assay: <10% Inter-assay: <10%
Species reactivity: Species independent

Minimum recommended dilution
Serum & Plasma: 50-fold
Note: Minimum recommended dilution represents the dilution which is needed to eliminate matrix interference effects and obtain optimal recovery. All samples must be diluted to at least the minimum recommended ratio. Samples may be further diluted if the sample values fall within the standard curve.

General Information

Usetekinumab also known by Stelara® is a human monoclonal antibody used to treat Crohn's disease, ulcerative colitis, and plaque psoriasis. Stelara is a neutralizing antibody which binds to the p40 subunit of IL-12 and IL-23. Stelara works by interfering with the activation of the body's inflammatory immune response through the suppression of IL12 and IL23 which help activate T-cells. Stelara was first approved for use in 2009 to treat plaque psoriasis.

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