

Separate antibody reagents

Monoclonal antibodies



Product code	Product description	Quantity
3460-3-250	anti-h-IL-6 mAb 13A5, purified	250 µg
3460-3-1000	anti-h-IL-6 mAb 13A5, purified	1 mg
3460-6-250	anti-h-IL-6 mAb 39C3, biotinylated	250 µg
3460-6-1000	anti-h-IL-6 mAb 39C3, biotinylated	1 mg

Clones

13A5, Rat IgG1 (capture mAb)
39C3, Rat IgG2a (detection mAb)

Specificity

Native and recombinant human IL-6.
The mAbs also react with native IL-6 from rhesus and cynomolgus macaques. The two mAbs recognize different epitopes of IL-6.

Immunogen

Recombinant human IL-6 was used as immunogen for the production of both mAbs.

Production and purification

Antibodies have been purified from *in vitro* cultures by protein G affinity chromatography.

Concentrations

The mAbs have been sterile filtered (0.22 µm) and are delivered at 1 mg/ml in phosphate buffered saline with 0.02 % sodium azide.

Storage

Store product at 4-8°C or frozen at -20°C or below. Avoid repeated freezing and thawing.

Applications

Enumeration of IL-6 producing cells using ELISpot. Quantification of IL-6 in solution e.g. cell supernatants using ELISA.
MAb 13A5 is recommended for capture and mAb 39C3 for detection.

Human IL-6 antibodies

ELISpot^{PLUS} kit



The ELISpot^{PLUS} kit contains 4 white PVDF plates, matched quantities of capture antibody, biotinylated detection antibody, Streptavidin-enzyme conjugate (ALP or HRP), and substrate (BCIP/NBT or TMB).

Contents: • PVDF plates (white) • capture mAb • biotinylated detection mAb
• Streptavidin-enzyme (ALP or HRP) • BCIP/NBT or TMB substrate

Product code	Product description	Streptavidin-enzyme	Quantity
3460-2AW-Plus	h-IL-6 ELISpot ^{PLUS} kit	ALP	4 white plates
3460-2HW-Plus	h-IL-6 ELISpot ^{PLUS} kit	HRP	4 white plates

PVDF plates

PVDF (polyvinylidene fluoride) membrane plates included in the ELISpot^{PLUS} kit should be stored at room temperature.

Antibodies

See section **Separate antibody reagents**.

Streptavidin-enzyme conjugate

Secondary detection reagents, Streptavidin-ALP and -HRP, should be stored at 4-8°C.

Substrates

BCIP/NBT and TMB substrate are supplied as ready-to-use solutions and should be stored at 4-8°C.

Human IL-6 ELISpot

ELISpot kit



The basic kit contains matched quantities of coating and detection reagents for ≥ 4 plates. This kit does not include ELISpot plates and substrate.

Contents: • capture mAb • biotinylated detection mAb • Streptavidin-enzyme (ALP or HRP)

Product code	Product description	Streptavidin-enzyme	Quantity
3460-2A	h-IL-6 ELISpot kit	ALP	for 4 plates*
3460-2H	h-IL-6 ELISpot kit	HRP	for 4 plates*

*sufficient for 4 plates when using recommended coating conc. of 15 $\mu\text{g/ml}$ of capture antibody.

Antibodies

See section **Separate antibody reagents**.

Streptavidin-enzyme conjugate

Secondary detection reagents, Streptavidin-ALP and -HRP, should be stored at 4-8°C.

Typical images of human IL-6 ELISpot wells:



LPS
25 000 cells



No stimuli
25 000 cells

IL-6 response to polyclonal activator. Human PBMC were stimulated in presence of LPS or cultured in medium alone (no stimuli) for 4 hours.

Human IL-6 ELISpot

ELISA^{PRO} kit



The ELISA^{PRO} kit is a complete kit based on precoated strip-plates and includes all reagents and buffers required for an easy and straight-forward assay. Careful validations have established these kits as highly sensitive tools for quantification of cytokines in both serum/plasma samples and in cell supernatants. The cytokine standard has been calibrated against an international reference reagent from NIBSC (National Institute for Biological Standards and Control).

Contents:

- precoated strip-plates
- biotinylated detection mAb
- Streptavidin-HRP
- cytokine standard
- standard reconstitution buffer
- wash buffer
- ELISA diluent
- Streptavidin-HRP diluent
- TMB substrate
- stop solution
- adhesive plate covers

Product code	Product description	Quantity
3460-1HP-2	human IL-6 ELISA ^{PRO} kit	2 plates
3460-1HP-10	human IL-6 ELISA ^{PRO} kit	10 plates

Antibodies

See section **Monoclonal antibodies**.

Standard

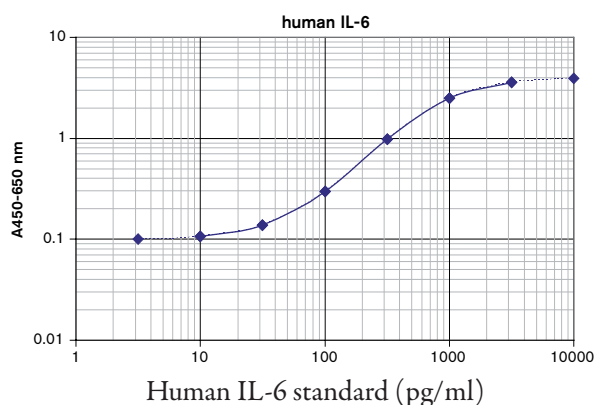
ELISA kits include a lyophilized recombinant human IL-6 standard that should be stored at -20°C. After reconstitution of the lyophilized standard, it should be aliquoted and kept at -20 °C.

Streptavidin-HRP conjugate

Secondary detection reagents, Streptavidin-HRP, should be stored at 4-8°C

Buffers, diluents, substrate, stop solution

All these components should be stored at 4-8 °C. The expiry date for the unopened kit is indicated on the box. An opened kit has an expiry date of 1 month if stored according to instructions.



Representative titration of human recombinant IL-6 standard using the ELISA^{PRO} kit from Mabtech. The standard range is 10-3160 pg/ml.

Human IL-6 ELISA

ELISA kit



The kits contain matched quantities of capture mAb, detection reagents and recombinant cytokine standard for 6 or 20 plates. The cytokine standard has been calibrated against an international reference reagent from NIBSC (National Institute for Biological Standards and Control).

Contents: • capture mAb • biotinylated detection mAb
• Streptavidin-enzyme (ALP or HRP)
• cytokine standard

Product code	Product description	Streptavidin-enzyme	Quantity
3460-1A-6	h-IL-6 ELISA kit	ALP	for 6 plates
3460-1A-20	h-IL-6 ELISA kit	ALP	for 20 plates
3460-1H-6	h-IL-6 ELISA kit	HRP	for 6 plates
3460-1H-20	h-IL-6 ELISA kit	HRP	for 20 plates

Antibodies

See section **Separate antibody reagents**.

Streptavidin-enzyme conjugate

Secondary detection reagents, Streptavidin-ALP and -HRP, should be stored at 4-8°C.

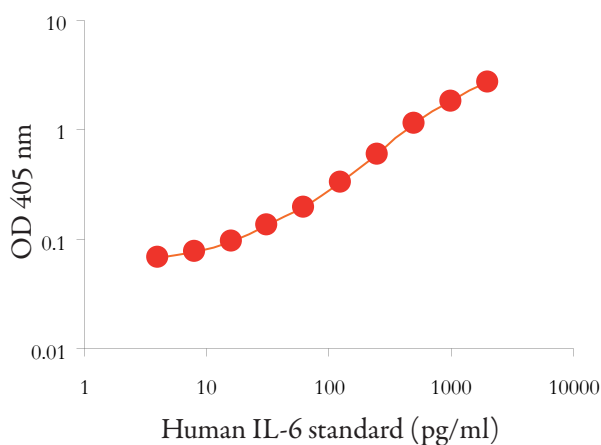
Standard

ELISA kits include a lyophilized recombinant human IL-6 standard that should be stored at -20°C. After reconstitution of the lyophilized standard, it should be aliquoted and kept at -20 °C.

Representative titration of human recombinant IL-6 standard using an ELISA kit from Mabtech. The standard range is 13-1300 pg/ml.

Note:

Mabtech offers an ELISA diluent particularly recommended for the dilution of serum/plasma samples. The diluent prevents false positive read-outs which may be caused by interference of heterophilic antibodies found in plasma and serum and is available separately. Please inquire.



Human IL-6 ELISA

References

Selected references using IL-6 reagents from Mabtech

Human IL-6 ELISpot

- Kouwenhoven M, *et al.* Enzyme-Linked immunospot assays provide a sensitive tool for detection of cytokine secretion by monocytes. *Clin. Diagn. Lab. Immunol.* 8: 1248, 2001.
- Halse A-K, *et al.* Increased frequency of cells secreting Interleukin-6 and Interleukin-10 in peripheral blood of patients with primary Sjögren's syndrome. *Scand. J. Immunol.* 49: 533, 1999.

Human IL-6 ELISA

- Nilsson J, *et al.* Thioredoxin prolongs survival of B-type chronic lymphocytic leukemia cells. *Blood* 95: 1420, 2000.

All our products are developed and manufactured by MABTECH AB, Sweden, whose quality management system complies with the following standards:

