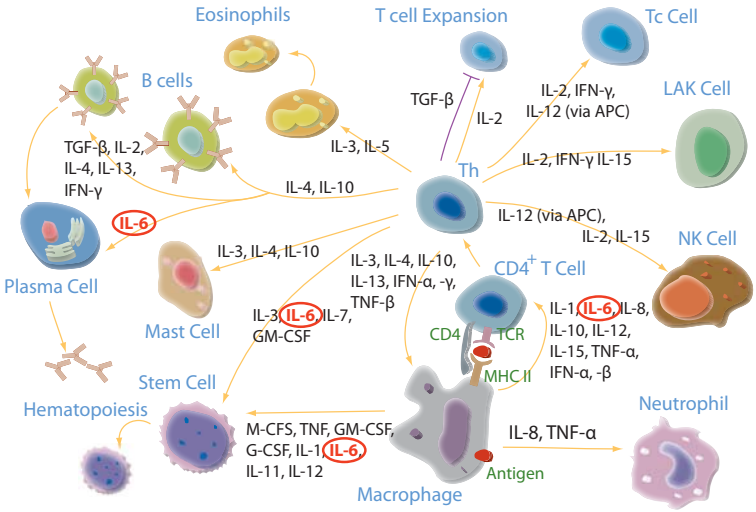
# Erenna® IL-6 Immunoassay Kit

Singulex®

## Biology and Disease

Interleukin-6 (IL-6) is a pro-inflammatory cytokine secreted by T cells and macrophages to stimulate immune response to trauma, especially burns or other tissue damage leading to inflammation. IL-6 is also secreted by macrophages in response to specific microbial molecules, referred to as pathogen associated molecular patterns (PAMPs), which trigger the innate immune response and initiate inflammatory cytokine production. IL-6 is one of the most important mediators of fever and of the acute phase response. IL-6 is also called a "myokine," a cytokine produced from muscle that increases in response to muscle contraction. Additionally, osteoblasts secrete IL-6 to stimulate osteoclast formation.



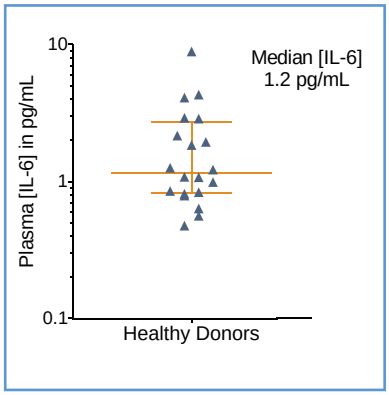




FIGURE 1: [IL-6] in EDTA plasma from 20 healthy donors, with median and interquartile range.

The Erenna® IL-6 Immunoassay Kit reliably quantifies IL-6 in healthy subjects, who have a median [IL-6] of 1.2 pg/mL that is well above the detection limit of 0.005 pg/mL.

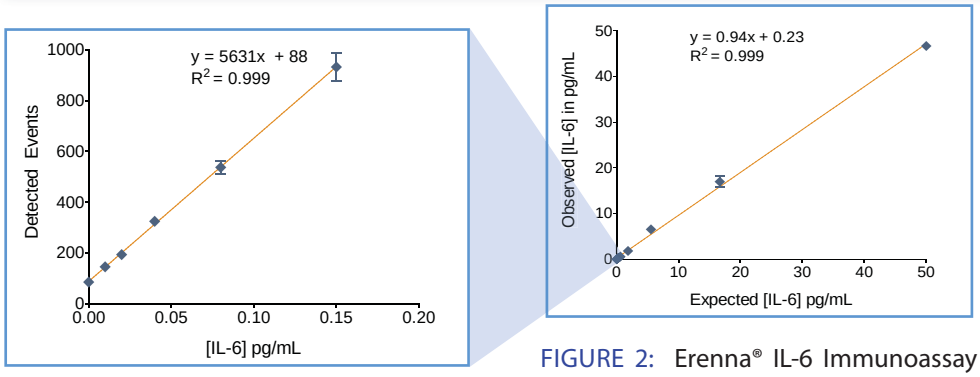



FIGURE 2: Erenna® IL-6 Immunoassay Kit low-end standard curve signal (left) and curve fit (above).

TABLE 1: Analytical sensitivity of the Erenna® IL-6 Immunoassay Kit[1]

| | |
|---|---|
| Lower Limit of Detection | 0.005 pg/mL |
| Lower Limit of Quantification[2] | 0.01 pg/mL |
| Upper Limit of Quantification | 50 pg/mL |
| Low-end CV% Range | 2 - 8% |
| Low-end CV% Average | 5% |
| Assay Volume | 75 µL |
| Minimum Sample Volume Required[3] | 1 µL |

[1] see product insert for updated values
[2] LLoQ ≤ 20% CV and ± 20% recovery
[3] based upon median [IL-6] in a healthy reference population

Representative data shown for demonstration purposes only. Individual results may vary depending upon samples tested and protocol used.

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