

Biology and Disease

Interferon-gamma (IFN-γ) is a cytokine with antiviral and tumor-suppressing properties that is actively involved in the innate immune system. As the only member of the Type 2 IFN family, IFN-γ is expressed by Th1 cells, Tc cells, dendritic cells and natural killer cells. Once bound to its heterodimeric receptor IFN-γR, the activated glycoprotein recruits and directs macrophages to the site of infection and escalates the inflammatory response. IFN-γ has also been documented to up-regulate the expression of IL-1 and down-regulate the production of IL-8, both of which are pro-inflammatory cytokines. The potency, specificity and rapid action of IFN-γ make it an attractive drug target for immuno-regulatory diseases.

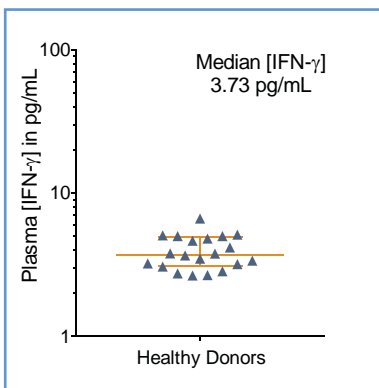
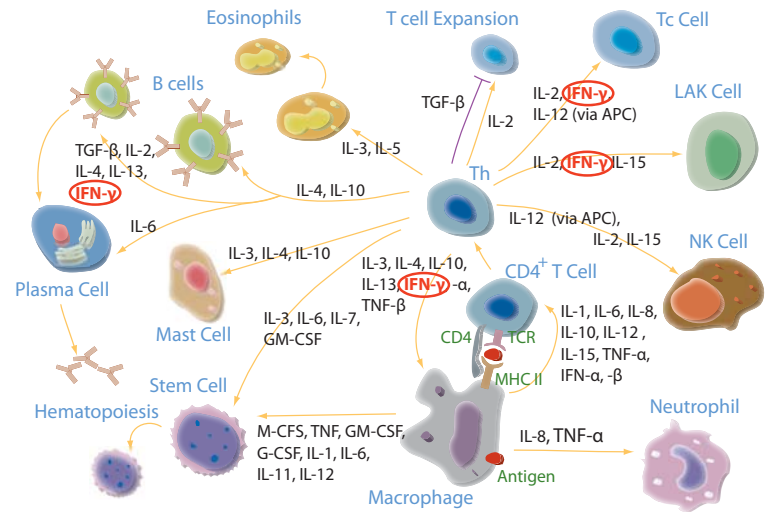


FIGURE 1: [IFN-γ] in EDTA plasma from 20 healthy donors, with median and interquartile range.

The Erenna® IFN-γ Immunoassay Evaluation Reagent Kit reliably quantifies IFN-γ in healthy subjects, who have a median [IFN-γ] of 3.73 pg/mL that is well above the detection limit of 0.006 pg/mL.

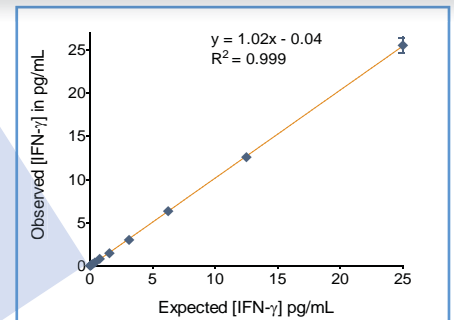
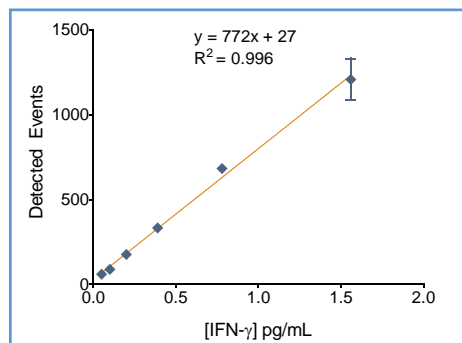


FIGURE 2: Erenna® IFN-γ Immunoassay Evaluation Reagent Kit low-end standard curve signal (left) and curve fit (above).

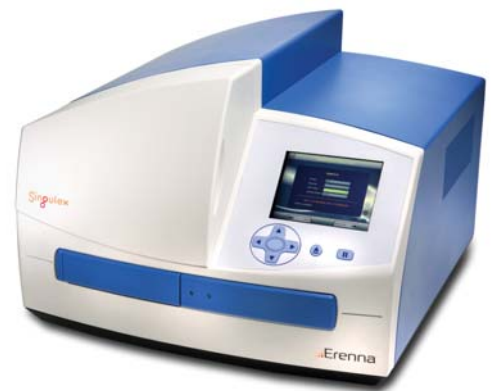
TABLE 1: Analytical sensitivity of the Erenna® IFN-γ Immunoassay Evaluation Reagent Kit¹

Lower Limit of Detection	0.006 pg/mL
Lower Limit of Quantification ²	0.05 pg/mL
Upper Limit of Quantification	25 pg/mL
Low-end CV% Range	1 - 10%
Low-end CV% Average	6%
Assay Volume	100 μL
Minimum Sample Volume Required ³	5 μL

¹ see product insert for updated values

² LLoQ ≤ 20% CV and ± 20% recovery

³ based upon median [IFN-γ] in a healthy reference population



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