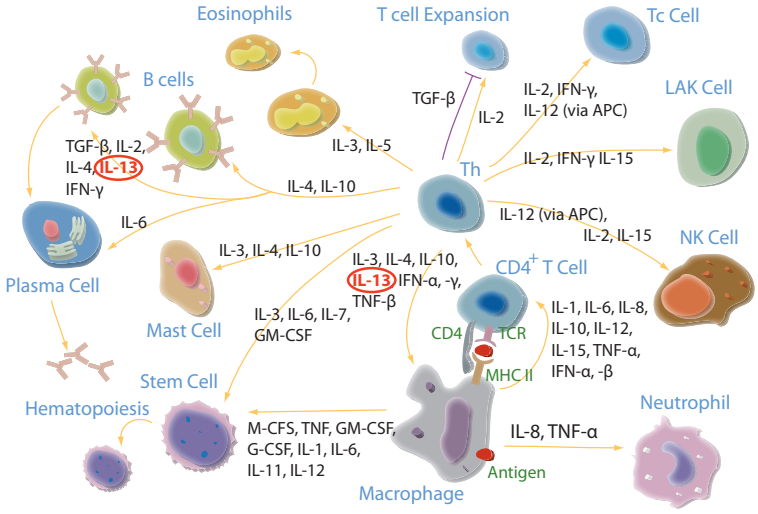
Erenna® IL-13 (V2) Immunoassay Kit
Cat.# 03-0109-xx

Singulex®

Biology and Disease

Interleukin-13 (IL-13) is a cytokine that is crucial for mediating allergic responses. Predominately expressed by Th2 cells, IL-13 is also secreted by cell types such as mast cells, NK cells, and dentritic cells. Both IL-13 and IL-4 are found at elevated levels in the asthmatic lung and are thought to be key regulators of airway inflammation. IL-13 functions similarly to IL-4 in that both can signal through the heterodimer receptor IL-4Rα - IL-13Rα1 and activate STAT-6 downstream. However, studies have suggested that IL-13 operates independently of IL-4 with regard to asthma regulation. Thus, IL-13 has become a promising therapeutic target for allergic diseases. Several anti-IL-13 antibodies are being evaluated as treatment for bronchial asthma.



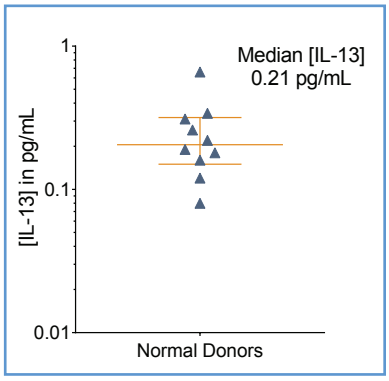


FIGURE 1: Endogenous [IL-13] in EDTA plasma and serum from 10 donors, with median and interquartile range.

The Erenna® IL-13 Immunoassay Kit reliably quantifies endogenous levels of IL-13 in EDTA plasma and serum with a median [IL-13] of 0.21 pg/mL that is well above the detection limit of 0.01 pg/mL.

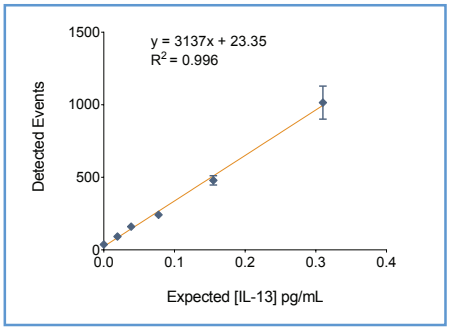


FIGURE 2: The Erenna® IL-13 (V2) Immunoassay Kit low-end standard curve.

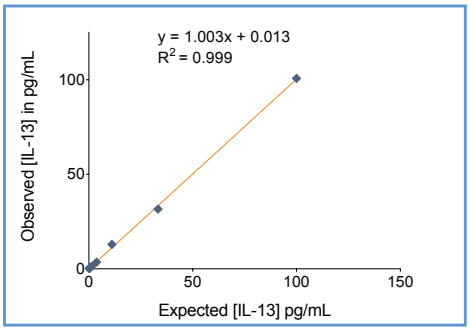
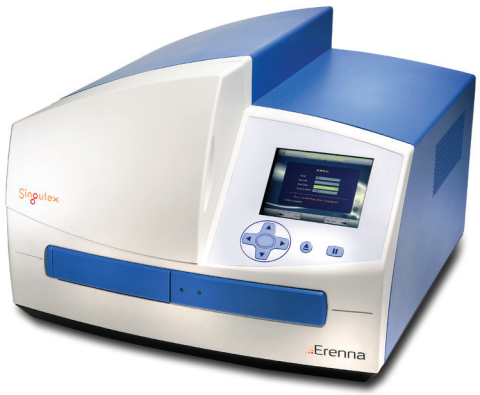


FIGURE 3: The Erenna® IL-13 (V2) Immunoassay Kit correlation curve.

TABLE 1: Analytical sensitivity of the Erenna® IL-13 (V2) Immunoassay Kit

Lower Limit of Detection	0.01 pg/mL
Lower Limit of Quantification[1]	0.04 pg/mL
Upper Limit of Quantification	100 pg/mL
Low-end CV% Range	0 - 12%
Low-end CV% Average	6%
Recommended Sample Volume	100 µL
Minimum Sample Volume Required[2]	25 µL
Matrices Verified	human serum/ EDTA plasma

[1] LLoQ ≤ 20% CV and ± 20% recovery
[2] based upon median [IL-13] in a normal reference population



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

Singulex, Inc.
1701 Harbor Bay Parkway, Suite 200. Alameda, CA 94502
Tel: 510 995 9000 Fax: 510 995 9090 Email: info@singulex.com

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