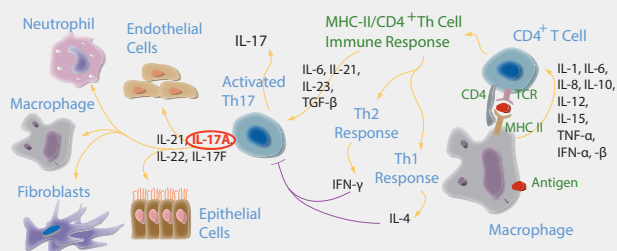


The Erenna SMC IL-17A (V2) Immunoassay Kit has unparalleled performance in quantifying IL-17A in human EDTA plasma and serum. The LLoQ of the assay (0.03 pg/mL) is well below observed human endogenous levels (median [IL-17A] = 0.12 pg/mL).

BIOLOGY AND DISEASE

Interleukin-17A (IL-17A) is the founding member of a group of cytokines called the IL-17 family. There are several members of the IL-17 family, from IL-17A to IL-17F (IL-17E is also called IL-25). IL-17A is involved in mediating pro-inflammatory responses by inducing the production of many other cytokines, chemokines, and prostaglandins from many cell types. The increased expression of chemokines attracts other cells, including neutrophils. IL-17A has many physiological functions, such as airway remodeling. As a result of these roles, the IL-17 family has been linked to many immune/autoimmune related diseases, including rheumatoid arthritis (RA), asthma, allergic responses, lupus, allograft rejection and anti-tumor immunity.



IMMUNOASSAY SPECIFICATIONS

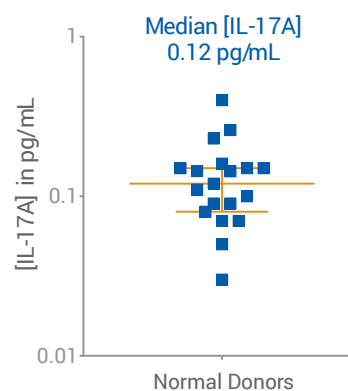
Lower Limit of Detection	0.004 pg/mL
Lower Limit of Quantification ¹	0.03 pg/mL
Upper Limit of Quantification	20 pg/mL
Low-end CV% Range	1 - 13%
Low-end CV% Average	6%
Recommended Sample Volume	50 µL
Minimum Sample Volume Required ²	50 µL
Matrices Verified	human serum/ EDTA plasma
Assay Format	Bead

¹ LLoQ ≤ 20% CV and ± 20% recovery

² based upon median [IL-17A] in a normal reference population

ENDOGENOUS RANGE

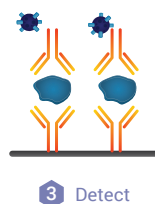
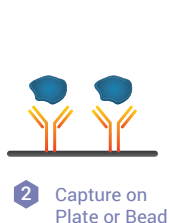
[IL-17A] in EDTA plasma and serum from 19 donors, with median and interquartile range.



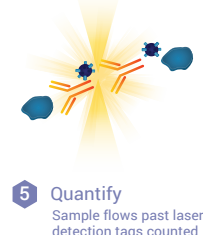
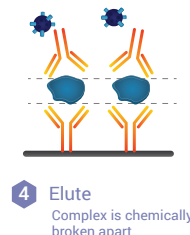
SMC TECHNOLOGY WORKFLOW

The proprietary digital SMC technology allows scientists to measure proteins with great precision, enabling unparalleled quantification at low and high levels of expression. The flexible Erenna Immunoassay System acquires data from both plate-based assays (PBA) and bead-based assays (BBA), providing choice of format depending on budget and quantification requirements.

STANDARD



PROPRIETARY



Previously undetectable, quantified. One molecule at a time.

Ls LIFE SCIENCE
 PRODUCTS & SERVICES

Erenna® Verified Immunoassays

Singulex addresses the needs of researchers who require highly quantitative, accurate, and robust biomarker assays. Under the rigorous Singulex Quality System, assays are developed and tested in matrix by multiple operators over multiple days. A comprehensive set of criteria evaluating ultimate quantitative performance are used to qualify Verified Immunoassays.

LOWER LIMIT OF QUANTIFICATION

Lowest point on standard curve where CV is <20% and accuracy is within 20% of expected values.

INTER- AND INTRA-ASSAY PRECISION

Same samples run on multiple plates over multiple days to ensure reproducibility. Spiked and un-spiked samples report values within 20% across experiments.

SPIKE RECOVERY

Analyte added at lower end of standard curve to ensure accurate measurements for real samples. Minimum of 10 samples spiked with acceptable recovery between 80-120%.

DILUTIONAL LINEARITY

Spiked samples diluted through at least 3 dilutions. Minimum of 10 samples spiked and diluted with acceptable recovery between 80-120%.

DYNAMIC RANGE

Assays target a quantifiable range of 3-4 logs.

ENDOGENOUS RANGE

Minimum of 10 samples from individual donors assessed for ability to quantify baseline biomarker levels.



Get more product information [here](https://singulex.com/lsresources)
singulex.com/lsresources

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