



Erenna® SMC™ Immunoassay Menu

The proprietary digital Single Molecule Counting 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.

Verified Immunoassay Kits

ANALYTE	PART NO.	ASSAY FORMAT	LLoQ (pg/mL)	MEDIAN ENDOGENOUS (pg/mL)	SPECIES *	SAMPLE TYPE †
KIM-1	03-0118	PBA	3.91	P: 65; S: 75; U: 147	H	P, S, U
AKT1 – pSer473	03-0100	BBA	0.98	NA	H, M, R	L
AKT1 – total	03-0099	BBA	7.8	NA	H, M, R	L
cTnI	03-0092	BBA	0.4	1.75	H, Cy, R, C, GP	P, S
G-CSF	03-0047	BBA	0.08	17	H	P
GM-CSF	03-0067	BBA	0.02	0.2	H	P
GLP-1 – active	03-0024	BBA	0.4	3.46	H, M, R, C	P
GLP-1 – total	03-0025	BBA	0.2	17.8	H, M, R, C	P
IFN-γ	03-0049	BBA	0.2	0.79	H	P
IL-1α	03-0072	BBA	0.39	1.06	H	P
IL-1β	03-0028	BBA	0.2	0.08	H	P
IL-2	03-0051	BBA	0.05	0.21	H	P, S
IL-4	03-0052	BBA	0.04	0.02	H	P
IL-5	03-0053	BBA	3.91	4.52	H	P
IL-6	03-0089	BBA	0.08	1.3	H	P
IL-7	03-0094	BBA	0.39	4.91	H	P, S
IL-8	03-0055	BBA	0.24	3.6	H	P, S
IL-10	03-0056	BBA	0.39	1.01	H	P
IL-12	03-0057	BBA	0.05	0.13	H	P, S
IL-13 (V2)	03-0109	BBA	0.04	0.21	H	P, S
IL-15	03-0058	BBA	0.1	3.38	H	P, S
IL-17A (V2)	03-0103	BBA	0.03	0.12	H	P, S
IL-17F (V2)	03-0102	BBA	0.2	0.86	H	P, S
IL-17A/F Heterodimer (V2)	03-0119	BBA	1.2	2.75	H	P, S
IL-21	03-0014	BBA	0.2	0.53	H	S
IL-22	03-0059	BBA	0.2	3.3	H	P
IL-23	03-0112	BBA	0.1	0.18	H	P, S
TNF-α (Human)	03-0088	BBA	0.1	2.3	H	P
TNF-α (Mouse)	03-0108	BBA	0.4	38.6	M	S
VEGF (Human)	03-0068	BBA	0.2	66.5	H	P

* Optimized for the first species type listed. Other listed species have been tested, but not optimized for peak performance.

KEY: H = human; M = mouse; R = rat; GP = guinea pig; Cy = cynomolgus monkey; C = canine

† Optimized for use in sample type(s) listed. KEY: P = EDTA plasma; S = serum; L = lysate; U = urine

A comprehensive set of criteria evaluating ultimate quantitative performance are used to qualify Verified Immunoassays.

LOWER LIMIT OF QUANTIFICATION

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

INTER- AND INTRA-ASSAY PRECISION

Samples run on multiple plates over multiple days. Spiked and un-spiked samples within 20% across experiments.

SPIKE RECOVERY

Minimum of 10 samples spiked with acceptable recovery between 80-120%.

DILUTIONAL LINEARITY

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.

Plate-Based Discovery Immunoassay Kits

ANALYTE	PART NO.	LLoQ (pg/mL)	SAMPLE TYPE
Mouse IL-17A	03-0123	0.98	Serum
Mouse IL-17F	03-0125	1.95	Serum
Mouse IL-21	03-0126	9.8	Serum
Mouse IL-22	03-0127	100	Serum

Discovery Immunoassays are provided as complete kits to run on your Erenna platform.

LOW-COST

REPRODUCIBLE LLoQ

SIMPLE WORKFLOW

MINIMAL SAMPLE VOLUME

Ongoing Research at Singulex

Singulex has worked with a number of other biomarkers for use in research programs, demonstrating the versatility of the platform across a variety of disease areas. Contact us to see how you may accelerate your own research in these disease areas.

NEUROLOGY

- A β -40
- A β -42
- VILIP-1

INFLAMMATION

- mouse IL-2
- mouse IL-4
- mouse IL-5
- mouse IL-10
- mouse IL-13

- mouse VEGF
- mouse TNF- α
- mouse IFN- γ

METABOLISM

- Glucagon
- Insulin
- Active GLP-1 (Plate)
- Total GLP-1 (Plate)

ONCOLOGY

- EGFR
- MMP2
- MMP2/TIMP2
- TIMP-2
- tJNK1
- pJNK1
- tJNK2
- pJNK2
- tERK2

- pERK2
- tGSK3 β
- pGSK3 β

CARDIOVASCULAR

- Endothelin

TOXICOLOGY

- skeletal Tnl (fast)
- skeletal Tnl (slow)
- NGAL
- Cystatin C

Build and Optimize Your Own Immunoassays

DEVELOPMENT KIT	PART NO.
Erenna Detection Antibody Labeling Kit (for Plate and Bead Based Assay Development)	03-0076
Erenna Capture Antibody Labeling Kit (for Bead Based Assay Development)	03-0077
Erenna Bead Based Immunoassay Development Kit	03-0078
Erenna Plate Based Immunoassay Development Kit	03-0128
Erenna Assay Buffer Optimization Kit (for Plate and Bead Based Assay Optimization)	03-0122

EXPERT CUSTOM SERVICES

Singulex Custom Services are available when time and resources require an expert outsource partner helping to accelerate programs from discovery into clinical trials.

Custom Assay Development

Sample Testing Services

Antibody Derivatization Services

singulex.com/custom-service



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

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