

ELISpot and FluoroSpot: Antigen-Specific Response Assays

ELISpot and FluoroSpot are highly sensitive functional assays that can be used throughout preclinical and clinical development, including phase 3 clinical trials. These assays can be extremely useful for measuring antigen-specific T cells, which typically occur at low frequency in vivo and can be used to complement information from other functional assays, including intracellular cytokine staining (ICS) by flow cytometry and ELISA.



ELISpot and FluoroSpot Services

- Support global preclinical and clinical projects, including phase 3 clinical trials
- Prevalidation and validation services
- Standard and custom assays
- Exploratory, primary, and secondary endpoints



ELISpot Expertise

- Measuring MHC Class I and Class II T-cell responses
- Detecting low frequency T-cell responses
- B-cell ELISpots to measure IgG and IgM responses



FluoroSpot Expertise

- One-step direct detection via fluorophores
- Simultaneous detection of several analytes and subsequent T-cell subpopulation analysis

Example ELISpot Assay Panels

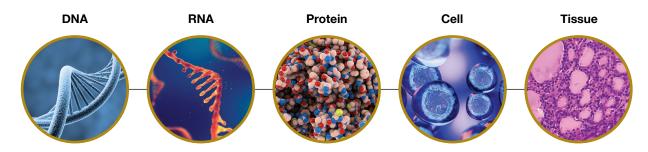
Stimuli	Cell Type Stimulated	Details	Stimulates Secretion of Human
CEF peptide pool	CD8+ T cells	Ag-specific stimulation by T-cell epitopes-derived from CMV, EBV, and flu	IFN-γ, IL-2, Granzyme B, Perforin
CEFT peptide pool	CD4+ T cells	Ag-specific stimulation by T-cell epitopes derived from CMV, EBV, TT, and flu	IFN-γ, IL-2, IL-5, IL-13
Anti-CD3 Ab	T cells	Polyclonal T-cell activation	IFN-γ, IL-2, IL-4, IL-5, IL-10, IL-13, IL-17A
РНА	T cells	Polyclonal T-cell activation	IFN-γ, IL-2, IL-4, IL-5, IL-10, IL-13, IL-17A, IL-21, GM-CSF, Granzyme B, Perforin
R848 + IL-2	B cells	Polyclonal B-cell activation	IgG, IgA, IgM
Anti-CD40 + IL-4	B cells	Polyclonal B-cell activation	lgE
LPS	Mono/DC	TLR4 agonist	IL-1β, 6, 8, 10, 12, 23, GM-CSF, ΜΙΡ1β, TNF-α
R848	Mono/DC	TLR8 agonist	INF-a, IL-1β, 6, 23, GM-CSF, TNF-a

Solving the most complex challenges in biomarker-driven and precision therapeutic development

Precision for Medicine is the first clinical research services organization engineered to support life sciences companies in the use of biomarkers essential to targeting patient treatments more precisely and effectively. Combining deep scientific expertise, clinical trial excellence, and advanced approaches for data science, Precision accelerates therapeutic development from the late preclinical phase through commercialization.

- 7 specialty labs throughout North America and Europe
- Sample processing labs on 5 continents
- Central lab services, including custom kitting, logistics, processing, and storage
- Assays available under GxP, CLIA, CLSI, CAP, ISO 9001/13485

Comprehensive suite of technologies, capabilities, and proprietary approaches to interrogate any sample type



- PCR ddPCR, qPCR Gene expression
- NGS whole exome and targeted resequencing
- profiling NanoString
- CAR T and virus (ie, gene therapy) biodistribution
- rtPCR
- MicroRNA analysis
- Comprehensive large molecule bioanalysis - PK, ADA, NAb
- Multiplex cytokine profiling, receptor occupancy, tetramer stainina
- Custom ligand binding assays - ELISA, MSD, Biacore
- Quantitative image analysis of protein expression (eg, phosphorylation, signaling)
- Flow cytometry up to Multiplex IHC with 31 color panels, ICS, phosphoflow, receptor occupancy
- Functional assays eg, T-cell activation, ADCC, ELISpot
- Single-cell quantitative image analysis
- Proprietary cell separation technology for CTCs and cfDNA
- Immunophenotyping via proprietary epigenetic platform

- centralized pathology reading
- Quantitative IF up to 9 concurrent markers
- FISH, ISH, sequencing

Download your digital copy



For more information about Precision for Medicine, visit precisionformedicine.com

