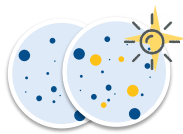


ELISpot and FluoroSpot: Antigen-Specific Response Assays

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.



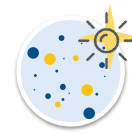
ELISpot and FluoroSpot Services

- 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

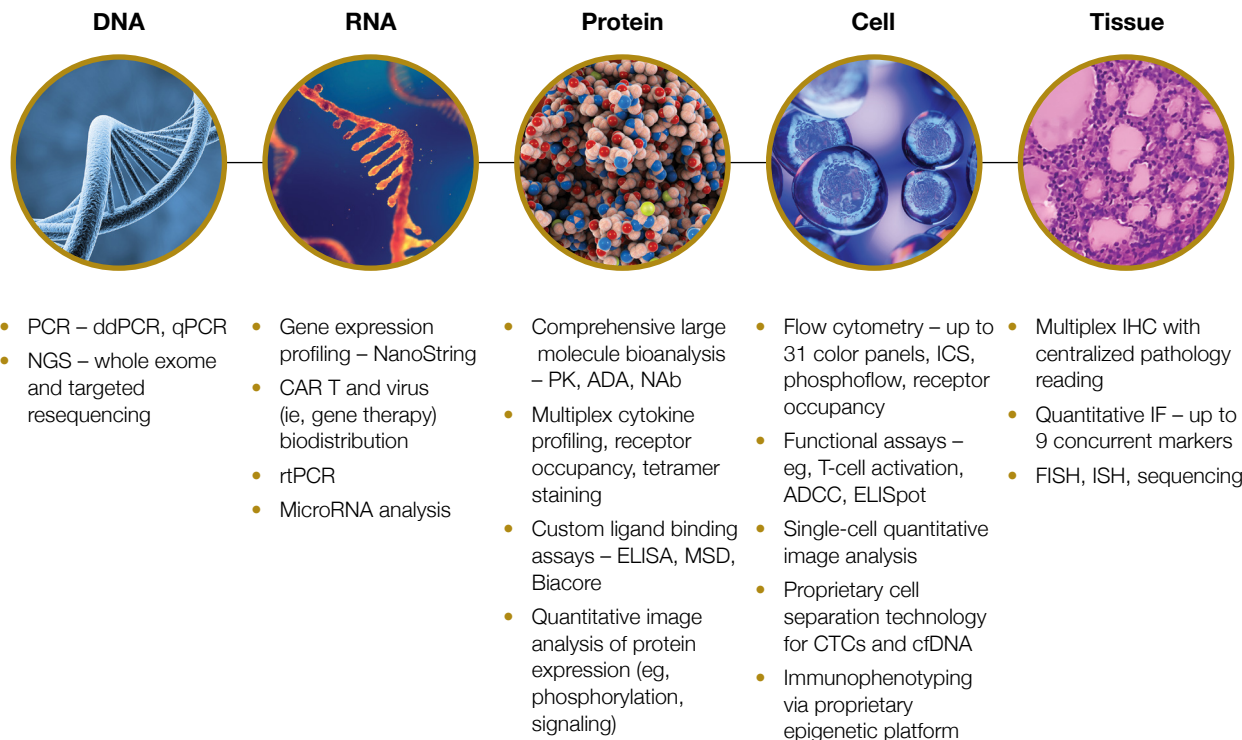
Stimuli	Cell Type Stimulated	Details	Stimulates Secretion of Human
CEF peptide pool	CD8+ T cells	Ag-specific stimulation by T-cell epitopes-derived from CMV, EBV, and flu	IFN- γ , IL-2, Granzyme B, Perforin
CEFT peptide pool	CD4+ T cells	Ag-specific stimulation by T-cell epitopes derived from CMV, EBV, 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
PHA	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	IgE
LPS	Mono/DC	TLR4 agonist	IL-1 β , 6, 8, 10, 12, 23, GM-CSF, MIP1 β , TNF- α
R848	Mono/DC	TLR8 agonist	INF- α , IL-1 β , 6, 23, GM-CSF, TNF- α

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