



nexelis

disciplined agility

assay development • specialty testing



CELLULAR IMMUNOLOGY SERVICES

Nexelis has a vast experience in developing cellular immunology assays to monitor immune cells during preclinical studies or clinical trials for the assessment of immunogenicity or efficacy of candidates from early to late-stage development.

Our experts can work in close collaboration with clients to adapt, develop, qualify and validate specific assays to appropriately assess cell-mediated immune responses and phenotyping.

Flow Cytometry

Various flow cytometers are available: Fortessa X20, BD FACS LSR II, & BD FACS Canto II.

Applications

- PBMC isolation and cryopreservation
- Immunophenotyping (up to 18 colors)
- Intracellular cytokine staining (ICS)
 - Cytokines (e.g. IFN- γ , IL-2, IL-13, IL-17, TNF- α)
 - Cytotoxic potential (e.g. CD107a, Granzymes, Perforin)
 - B-cell help (e.g. CD40L)
 - Memory profile (e.g. CD45RA, CCR7, CD27, CD28)
- T-cell activation/stimulation (e.g. CD44, CD62L)
- Immune checkpoints (e.g. PD-1, LAG-3, Tim-3)
- Antibody Dependent Cell-mediated Cytotoxicity (ADCC)
- Cell Beads Array (CBA)
- Proliferation and viability (e.g. CFSE, Ki67, Annexin)
- Infiltrating immune cells

ELISpot

Detection can be performed with either bright field or fluorescence.

Applications

- PBMC isolation and cryopreservation
- Humoral response (B-cell)
 - Detection of Total and Specific Antibody Secreting Cells (ASC) – IgG / IgA
 - Detection of memory B-cells
- Cell-mediated immune response (T-cell)
 - Cytokines: Vaccine efficacy (IFN- γ)
 - Quality immune response (Th1/Th2)
 - Perforin & Granzyme B
 - Cytotoxic T-cell response

Flow Cytometry



ELISpot

