

INDOOR

biotechnologies



Immunology Services

Core Platforms

Flow
cytometry

ELISA

Cell Based
Immunoassay

Immunoassay
Development

Luminex xMAP
Technology
Based Assays

SDS-PAGE &
Western
Blotting

ELISPOT

PCR & RT-PCR

Complement
Biology Assays

Immunology Services

❑ Cellular Enumeration

- Hematopoietic stem cells
- Immune cells

❑ Immune Cell Phenotyping

- Cell lineage
- Cell subset Differentiation
- Antigenic specificity
- Activation/Inhibition/Exhaustion/Immune Senescence
- Homing receptors/co-receptor
- Transcriptional factors

❑ Immune Functional Assays

- Lymphocyte proliferation assay
- T cell functional assay
- B cell functional assay
- Complement Dependent Cytotoxicity assay
- Antibody Dependent Cell-mediated Cytotoxicity assay
- Antibody Dependent Cellular Phagocytosis assay
- Immune Check Point Assays
- ELISPOT
- Molecular functional assays-Complement Biology Assays

- ❑ **Assays to study the immune status Th1 vs Th2 vs Th17 vs Treg cytokine/chemokine panel**
 - Using luminex xMAP technology(multiple markers in a single assay)
 - In serum and culture supernatant (from human PBMC)

- ❑ **Assays to study antibody titers**
 - in serum, plasma and culture supernatants
 - against vaccine and therapeutic targets

- ❑ **Assays to study inflammatory responses under in vitro and ex vivo conditions**
 - at molecular or cellular level
 - against protein targets or extracts
 - Using human PBMCs or cell lines

- ❑ **Assays to study cellular growth/cytotoxicity**
 - by MTT assay
 - using annexin
 - using PI

- ❑ **Gene expression and DNA analysis**
 - from cells or tissues
 - by PCR, Q-RT-PCR
 - By Quantigene Singleplex or Multiplex

Immunology Services

Inhibition assays

- to identify inflammatory pathways
- to establish cell signaling pathways
- Using human PBMCs or cell lines

HLA typing

- by luminex xMAP technology

Basophil Activation Test

- for allergy testing

Isotyping of Immunoglobulins

- for human Abs
- for mouse Abs
- for Rat antibodies

Antibody production, purification & Characterization

- Monoclonal and polyclonal

Protein Conjugation

- biotin
- FITC/PE/APC
- enzyme

Assay Development

Luminex xMAP based multiplex assay development

- If you are doing multiple ELISAs for quantitating/validating a single product, we will be able to simplify things by multiplexing the assay, which will produce reliable and robust results and saves
 - Time
 - FTE
 - Cost

ELISA assay development

Immunological assay development- Cell/Protein based

Why Indoor Biotechnologies ?

- ✓ Expertise in developing fit-for-purpose immunoassays
- ✓ Consulting with experts for experimental design , set up and interpretation of data
- ✓ Quick turnaround time from project request to processed data
- ✓ Reduce overheads-save precious time and resources
- ✓ Capable of handling both large and small scale research projects
- ✓ Quality data with competitive pricing
- ✓ Proven track record with small biotech and large multinationals

Please contact us for further information

shiv@inbioindia.com
+91-9632469944

hayley@indoorbiotech.co.uk
+44(0)29-20682115