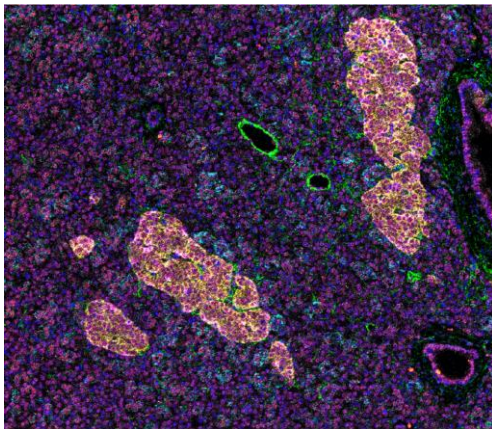


High-multiplex Immunostaining Services

ImaLink Platform, developed by ImaBiotech integrates a unique combination of imaging capabilities. The platform includes the state-of-the-art Hyperion™ Imaging System: High multiplexed Imaging Mass Cytometry (IMC) platform services for next level phenotype analyses. Dedicated to deeply interrogate tissues and tumors at subcellular resolution while preserving the information in tissue architecture and cellular morphology, IMC services measure the impact of a drug or a disease to the cell and allows to uncover new biomarker correlations and cell interactions.



Visualize and Quantify the distribution of up to 40 markers

- FOR a much deeper understanding of the interrelationships that contribute to tissue processes.
- FROM Translation Research to Phase 1 & 2 clinical trials on a single tissue section
- IN a GLP-like environment
- BY a Team of Immunohistochemistry experts and Data Scientists
- WITH a proprietary Imaging Data Analysis Platform
- FOR a fast turnaround: from data to data analysis as little as 12 weeks

BETTER UNDERSTAND DRUG EFFICACY

High multiplex Immunostaining services increase the accuracy of the drug development with a deep-profiling of the tissue heterogeneity and complexity.

Preclinical

- Biomarker discovery and development
- Characterization of tissue microenvironment
- Pathway modulation
- Therapeutic response

Clinical

- Patient stratification
- Efficacy biomarker
- Drug safety and toxicity

Therapeutic Areas include Immuno-oncology, Oncology, Inflammatory & Autoimmune diseases

WORKFLOW

1



DESIGN
panels using
pathologist-verified
Maxpar antibodies
conjugated to
metal tags.

2



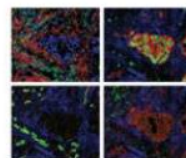
STAIN
tissues (FFPE or frozen)
or fixed cells using
familiar IHC protocols.

3



IMAGE
protein markers at
subcellular resolution
using the Hyperion
Imaging System.

4



ANALYZE
images in minutes
using the MCD Viewer
and easily export for
secondary analysis.

HOW IT WORKS

The Hyperion Imaging Mass cytometry uses metal-tagged antibodies combined with CyTOF technology to simultaneously image up to 40 protein markers in a single scan.

1. Standard FFPE or frozen tissue sections and fixed cells are labelled with metal-conjugated antibodies to highlight specific proteins of interest.
2. The slides are ablated with a laser in approximately 1 μm^2 pixels. The Hyperion system will then quantitatively assess the presence and quantity of each metal in a pixel.
3. After a pixel is ablated, another adjacent pixel is ablated within a 1000 x 1000 pixel field of view until all of the metals from each pixel have been passed through the system. An image is generated for each marker from the tissue using the pixel specific data.
4. Digital pathology Analysis through ImaBiotech property Image Platform Analysis including cell segmentation, cell population classification and quantification and spatial analysis.

**Ask us to tailor a customized
panel to perfectly fit your needs**

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