

# IMMUNOHISTOCHEMISTRY LAB SERVICES



## SPECIFICATIONS

INDIVUMED conducts highly standardized, automated immunohistochemistry (IHC) to support pre-clinical and clinical R&D. More than one hundred IHC assays, covering important cancer-related and immune markers are established.

## ASSAY DEVELOPMENT

- › Robust IHC assays ensuring high sensitivity and low background
- › Validation complies with standard clinical trials requirements (specificity, accuracy, linearity, precision)
- › Development process utilizes commercial or proprietary antibodies
- › Customer developed assays can be utilized by INDIVUMED

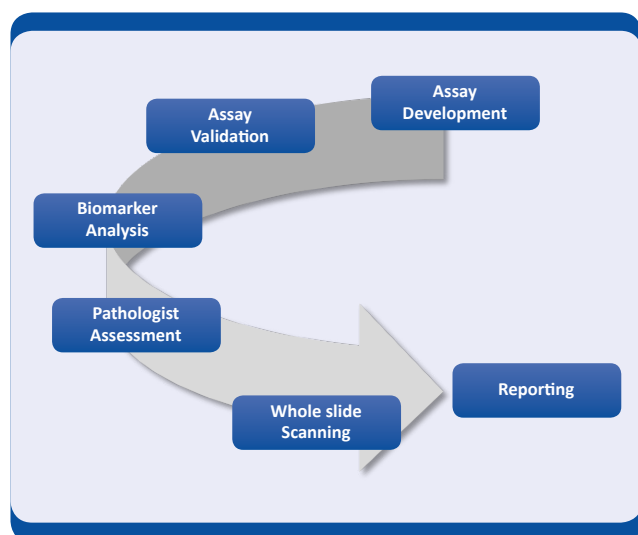
## PREVALENCE STUDIES

- › Fully validated IHC assays and IVD reagents
- › Biomarker analysis under GCP/GCLP compliance
- › IHC slide reading by in-house pathologists
- › High-resolution whole slide scanning
- › Availability of high quality biospecimens from the INDIVUMED biobank
- › Partners for digital histopathology

## ADDITIONAL TECHNOLOGIES

- › RNA in situ hybridization using RNAscope technology
- › DNA in situ hybridization using Ventana probes

## PROJECT WORK FLOW



## WORK FLOW OF ASSAY DEVELOPMENT

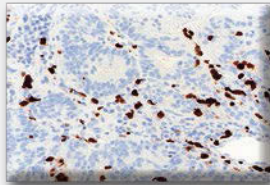
**MILESTONE I**  
**Specificity Testing and Pre-selection of Antibodies**  
Validation: Specificity

**MILESTONE II**  
**Immunohistochemistry Assay Development**  
Validation: Specificity and Accuracy

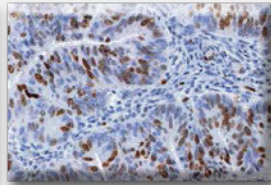
**MILESTONE III**  
**Full Assay Validation**  
Validation: Linearity, Sensitivity, Precision

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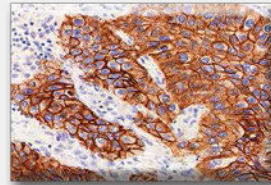
## REPRESENTATIVE IHC STAINING RESULTS IN SOLID TUMORS



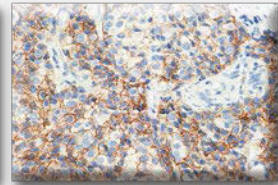
Colorectal cancer  
HIF1 $\alpha$



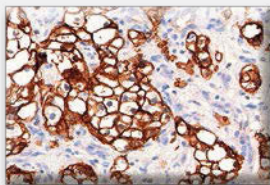
Colorectal cancer  
Topoisomerase II  $\alpha$



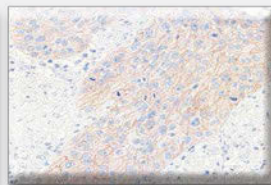
Non small cell lung cancer  
EGFR



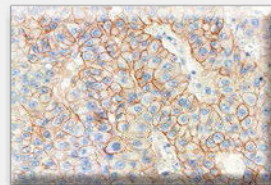
Breast cancer  
Her2



Renal cell cancer  
CAIX (case I)



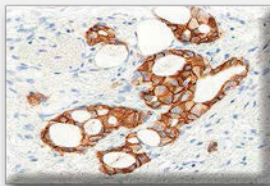
Head & neck squamous cell cancer  
cMet



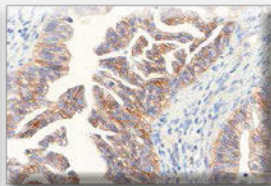
Hepatocellular cancer  
HER3



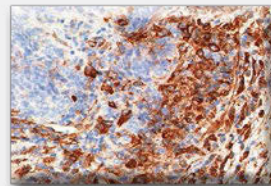
Hepatocellular cancer  
cMet



Pancreatic cancer  
cMet



Pancreatic cancer  
p-HER3



Ovarian cancer  
p-S6



Breast cancer  
E-Cadherin

## TISSUE MICRO ARRAYS (TMA)

Multiple tumor cases and matched normal tissue can easily be analyzed by immunohistochemistry on a single slide. INDIVUMED's tissue microarrays (TMA) are constructed from its high quality biobank. These TMAs are available through INDIVUMED's IHC Services Lab.

- › FFPE specimens of tumor and adjacent normal tissue
- › Single organ and multiple organ TMAs
- › Standardized collection and preparation of samples
- › Average cold ischemia time of tissues < 10 min
- › Core size: 1.0 or 1.5 mm
- › Number of cores per slide: up to 50
- › Comprehensive data available for all tumor spots on TMA

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