CROWN BIOSCIENCE

Immunohistochemistry Services

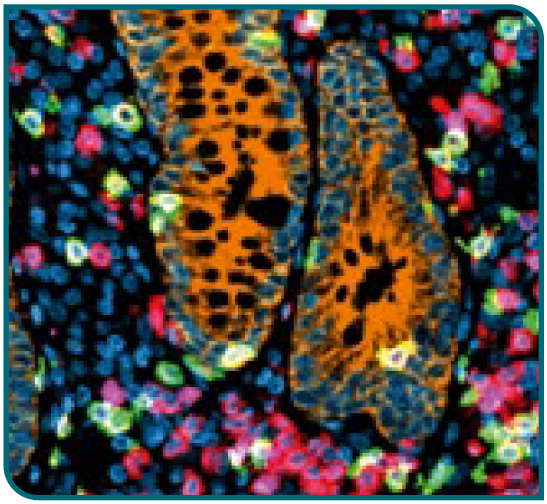
A JSR Life Sciences Company

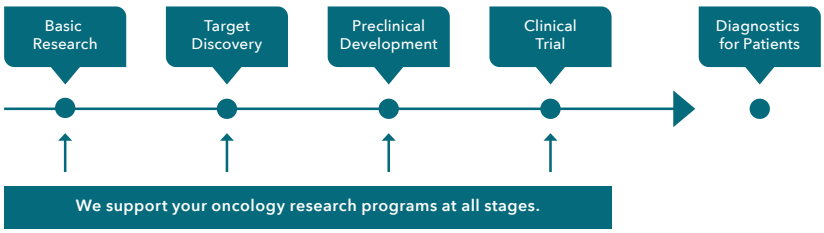
FACTSHEET

Overview

Crown Bioscience provides automated, highly reproducible immunohistochemistry (IHC) services from basic research to clinical trials support including:

- Chromogenic IHC services
- Fluorescence Multiplex IHC services
- Automated staining platforms – Ventana, Leica, Dako
- In-house pathologists and digital image analysis





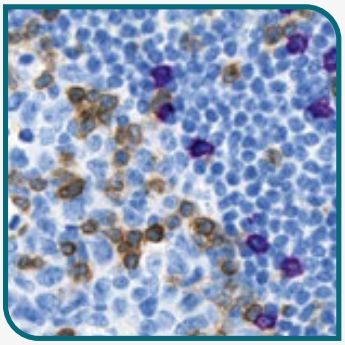
Services

- Custom IHC assay development
- Full IHC assay validation in line with FDA and EMA guidelines
- ISO 9001-certified, GCP-compliant, CAP-accredited, ISO 15189-certified
- High-resolution whole slide scanning
- Histopathological evaluation by in-house pathologists
- Digital image analysis

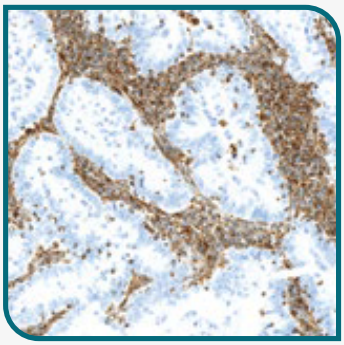
Chromogenic IHC

We have over 15 years' experience in IHC assay development and biomarker analyses. This includes a thorough selection as well as the careful evaluation of antibodies. We provide:

- Single and dual chromogenic IHC
- Established assays for >100 targets
- Histopathological evaluation using different scoring systems



Chromogenic dual anti-CD3/CD8 IHC



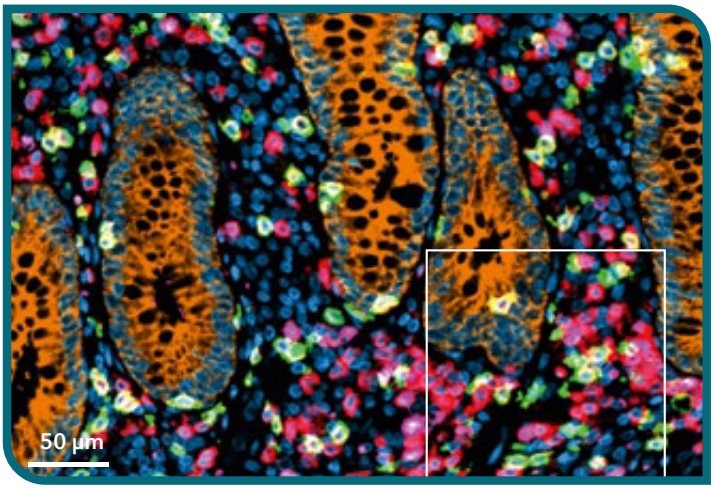
Chromogenic single anti-Vimentin IHC

Multiplex IHC

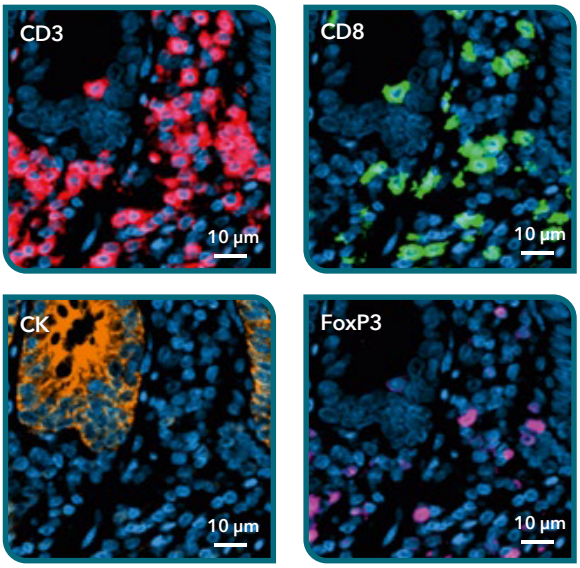
Our multiplex IHC (mIHC) services, implemented in 2017, enable an analysis of multiple biomarkers on single FFPE tissue sections. Our scientists follow streamlined workflows, ensuring the highest quality standards of mIHC assay development, validation, and analysis, while maintaining short turnover times.

Our capabilities include:

- Akoya Tyramide signal amplification (TSA) technology-based mIHC assay development, validation, and biomarker analyses (up to 6-plex)
- Ultivue technology multiplexing (up to 8-plex)
- High-resolution whole slide scans with the Zeiss Axio Scan.Z1
- Digital image analysis using Visiopharm Oncotopix



TSA-based fluorescent anti-CD3/FOXP3/CD8/pCK mIHC of human FFPE CRC tissue sample



Digital Image Analysis (DIA)

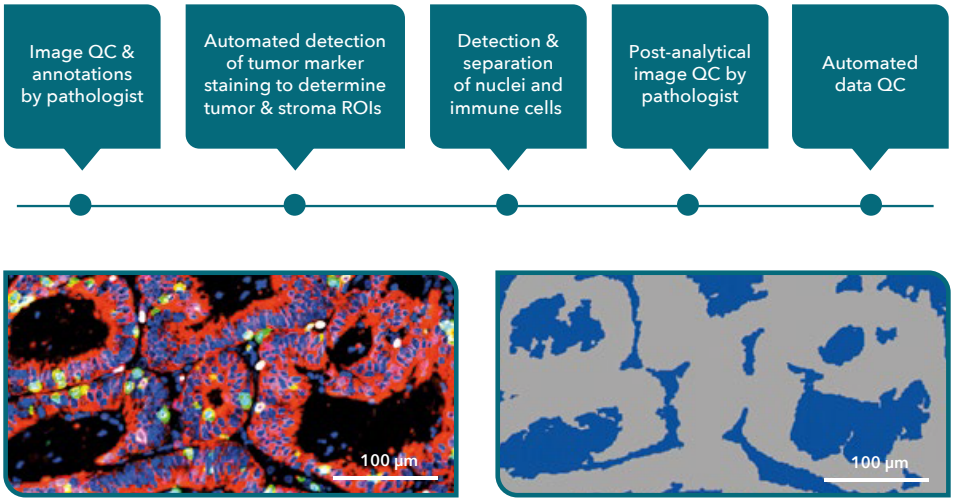
Here at Crown Bioscience, we have implemented in-house DIA services since 2017. By working closely with our pathology and IHC department, we ensure high-quality analyses and consistency in the generated data. Our services include:

- Using Visiopharm Oncotopix software
- Specifically designed Analysis Protocol Packages (APPs)
- GCP compliant process workflows
- Further technologies: Artificial Intelligence, Machine Learning, and Deep Learning

Your Benefits

- Visualize co-expression of multiple markers in a single section
- Reveal spatial relationships of markers and cells
- Characterize composition of the tumor immune cell landscape
- Validated combination of mIHC and digital image analysis

Determination of tumor and stroma ROIs through appropriate IHC labelling – workflow of digital image analysis



Complementary Services

- RNA in situ hybridization using RNAscope technology
- DNA in situ hybridization using Ventana probes
- Spatial Transcriptomic Services with 10x Genomics technology

Get in touch

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