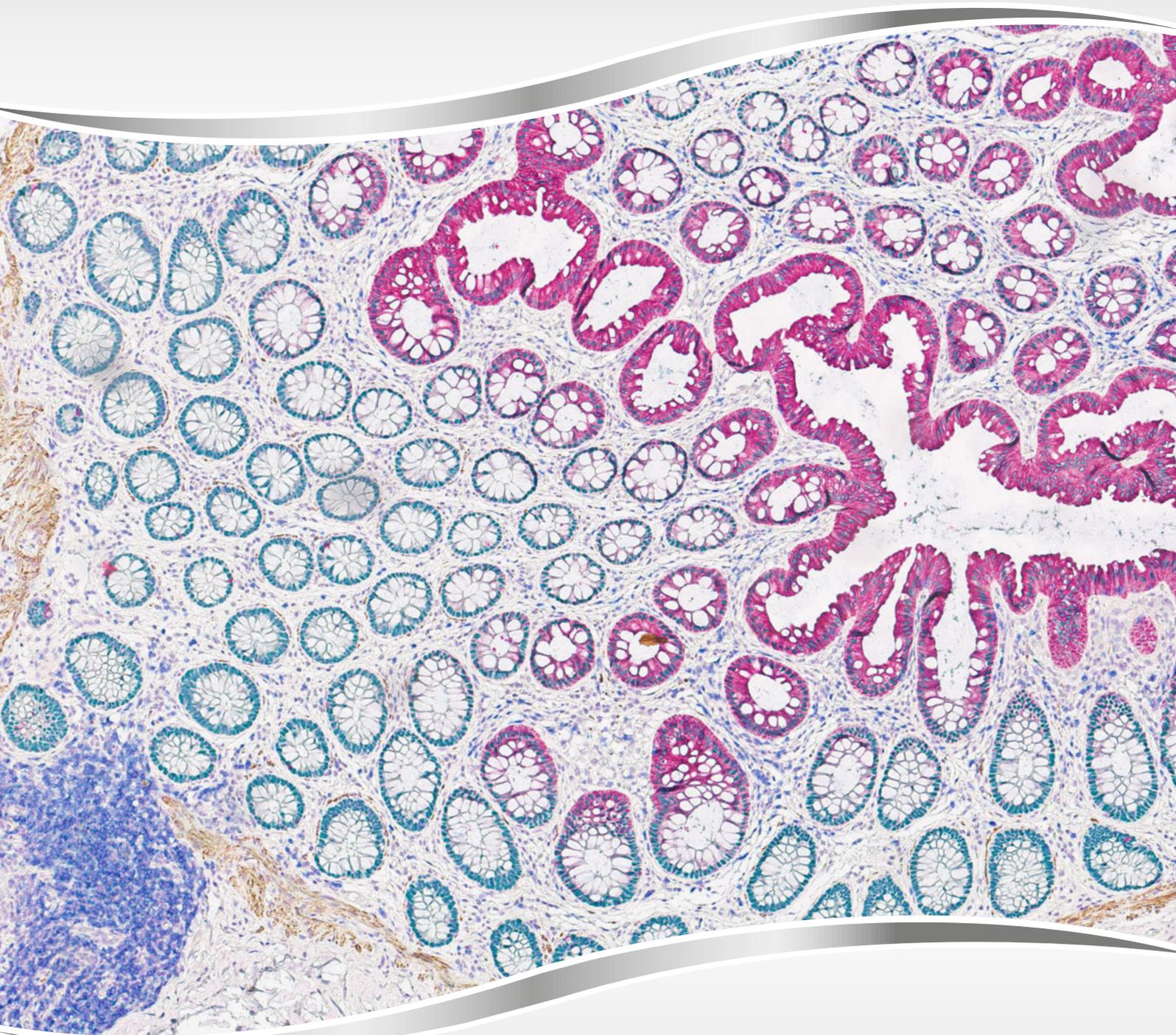


A D V A N C E D   S T A I N I N G   R E A G E N T S

# CHROMOGENIC MULTIPLEXING DETECTION PORTFOLIO

**SIMPLIFYING BRILLIANCE**

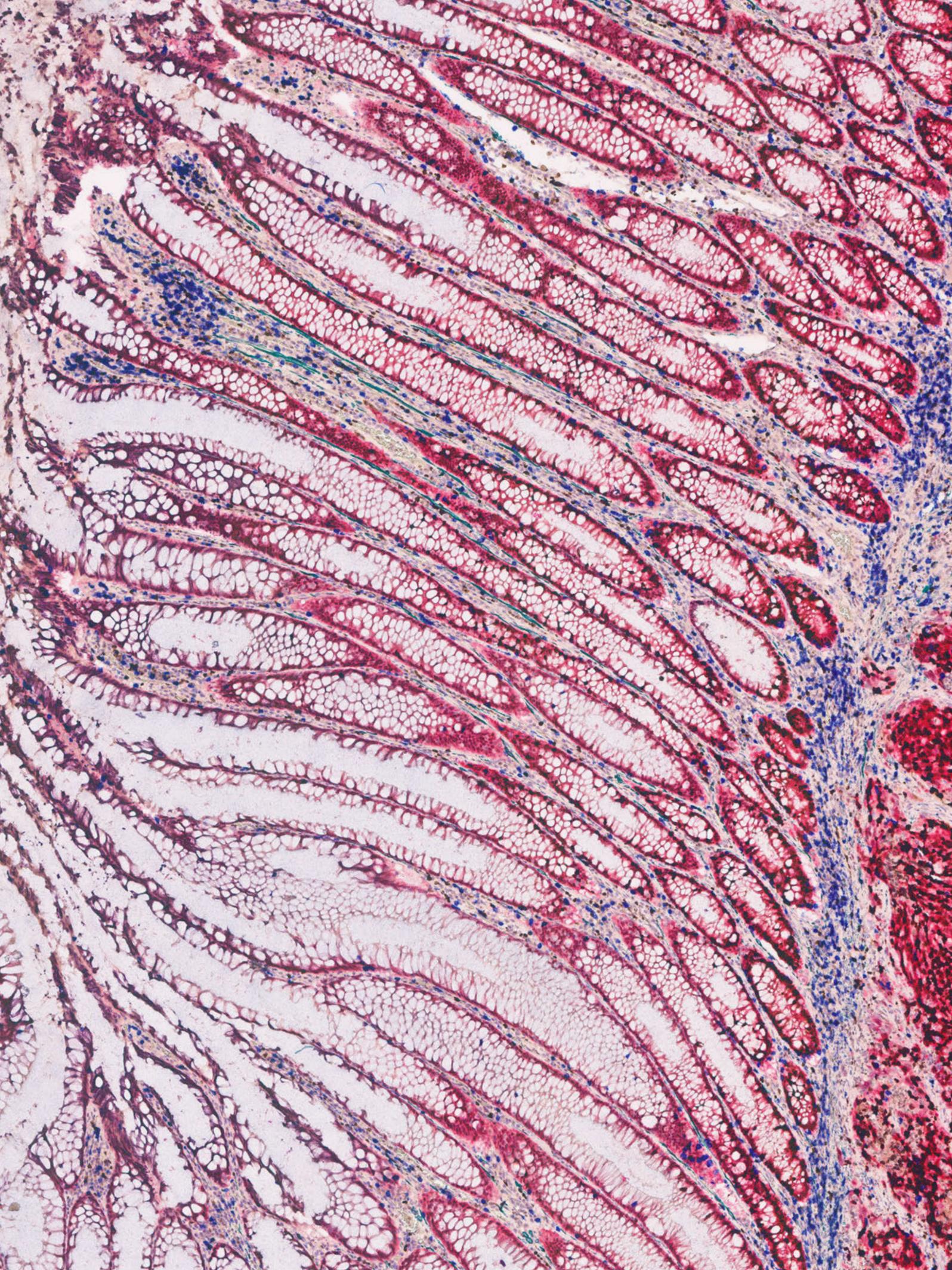


Accelerate Your Journey  
Imagine The Possibilities

*Leica*

BIO SYSTEMS

**FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.**

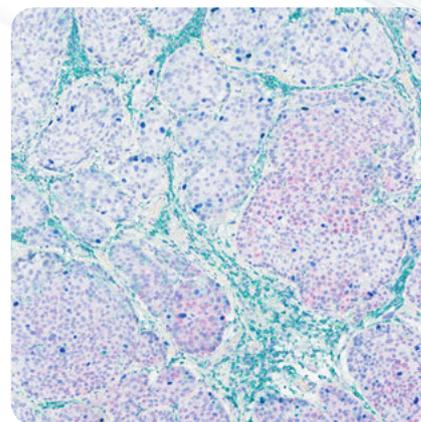
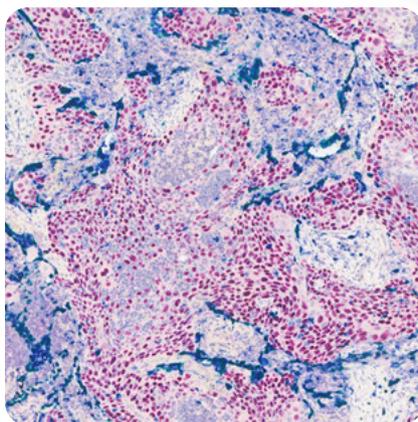


# FLEX YOUR PLEX

MULTIPLEXING ENABLES A PARADIGM SHIFT FOR ISH AND IHC. IT PROVIDES A MORE COMPLETE PICTURE OF WHAT IS HAPPENING AT A CELLULAR LEVEL, SHOWING SPATIAL ARRANGEMENTS AND PROTEIN /DNA/RNA INTERACTIONS ALL ON THE SAME SLIDE AND SAMPLE.

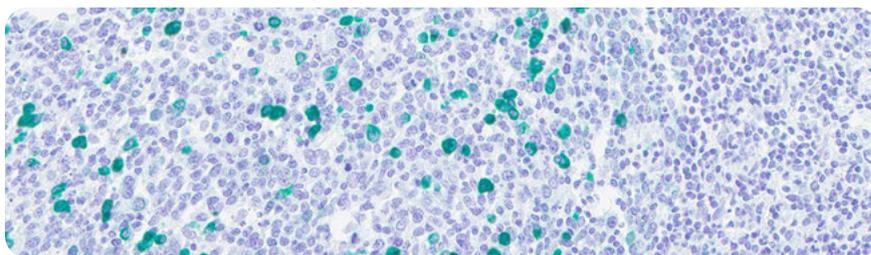
## IHC DETECTION

Multiplex staining of customized panels featuring high quality Novocastra antibodies unlocks the freedom to discover novel applications while providing comprehensive data with cellular context. Accelerate your discovery further with the flexible, fully automated BOND RX research stainer.



## ISH DETECTION

Kreatech probes with REPEAT-FREE technology provides brighter signals with reduced background noise. BOND RNA probes combined with the BOND RX research platform provide a powerful tool for chromogenic or fluorescent in situ hybridization.



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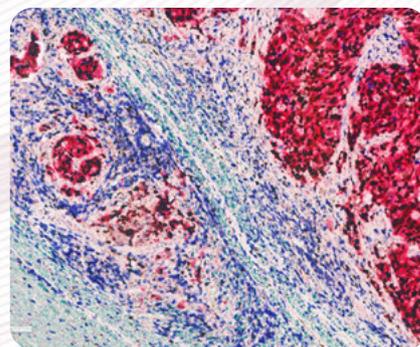
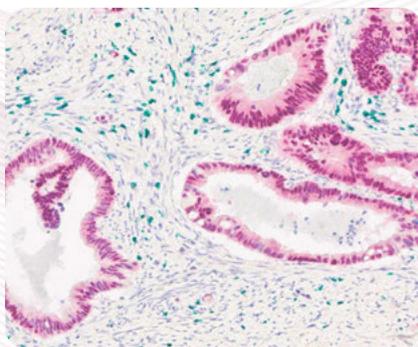
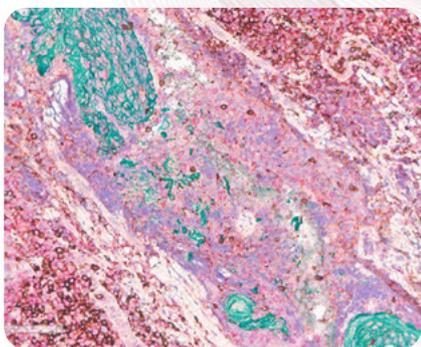
# POWERFUL RESEARCH TOOLKIT

## PUSH THE BOUNDARIES OF WHAT IS POSSIBLE

Combine the dynamic automation of the BOND RX research stainer with flexible, modular, high quality reagent detection systems to create completely customized staining protocols.

Spend less time perfecting difficult manual staining techniques and more time focusing on the next research breakthrough. The ever-evolving BOND RX research platform enables researchers to break through the staining barrier to next-generation innovation.

## UNLOCK CELLULAR SECRETS



**MAXIMIZE  
THE DATA  
ATTAINABLE  
FROM A SINGLE  
TISSUE SAMPLE**

**DISCOVER  
SPATIAL  
RELATIONSHIPS**

**DETERMINE  
CELLULAR  
PHENOTYPES**

**UNCOVER TISSUE  
AND TUMOR  
HETEROGENEITY**

**VISUALIZE UP TO  
6 MARKERS ON A  
SINGLE SLIDE**

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# INTEGRATED RESEARCH SOLUTION

## STAIN

### **BOND RX / RX<sup>m</sup> research stainer**

Fully automated, open platform provides boundless innovation



## SCAN

### **Aperio GT450 Scanner\***

Automated, high-throughput scanner that delivers excellent image quality



## MANAGE

### **Aperio eSlide Manager**

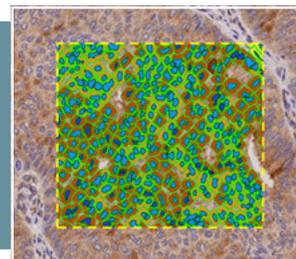
Open sharing platform providing the flexibility to collaborate



## ANALYZE

### **Aperio Image Analysis\***

Highly flexible algorithms support a wide range of applications



\* Aperio RUO (Research Use Only) Image Analysis Algorithms have been validated by Leica Biosystems for use with .svs images from Aperio AT2, Aperio CS2, and Aperio VERSA scanners. Use of Aperio RUO Algorithms with other available scanners has not been validated, and Leica Biosystems cannot train or support customers in use of Aperio RUO Algorithms with images from these scanners.

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20X

B

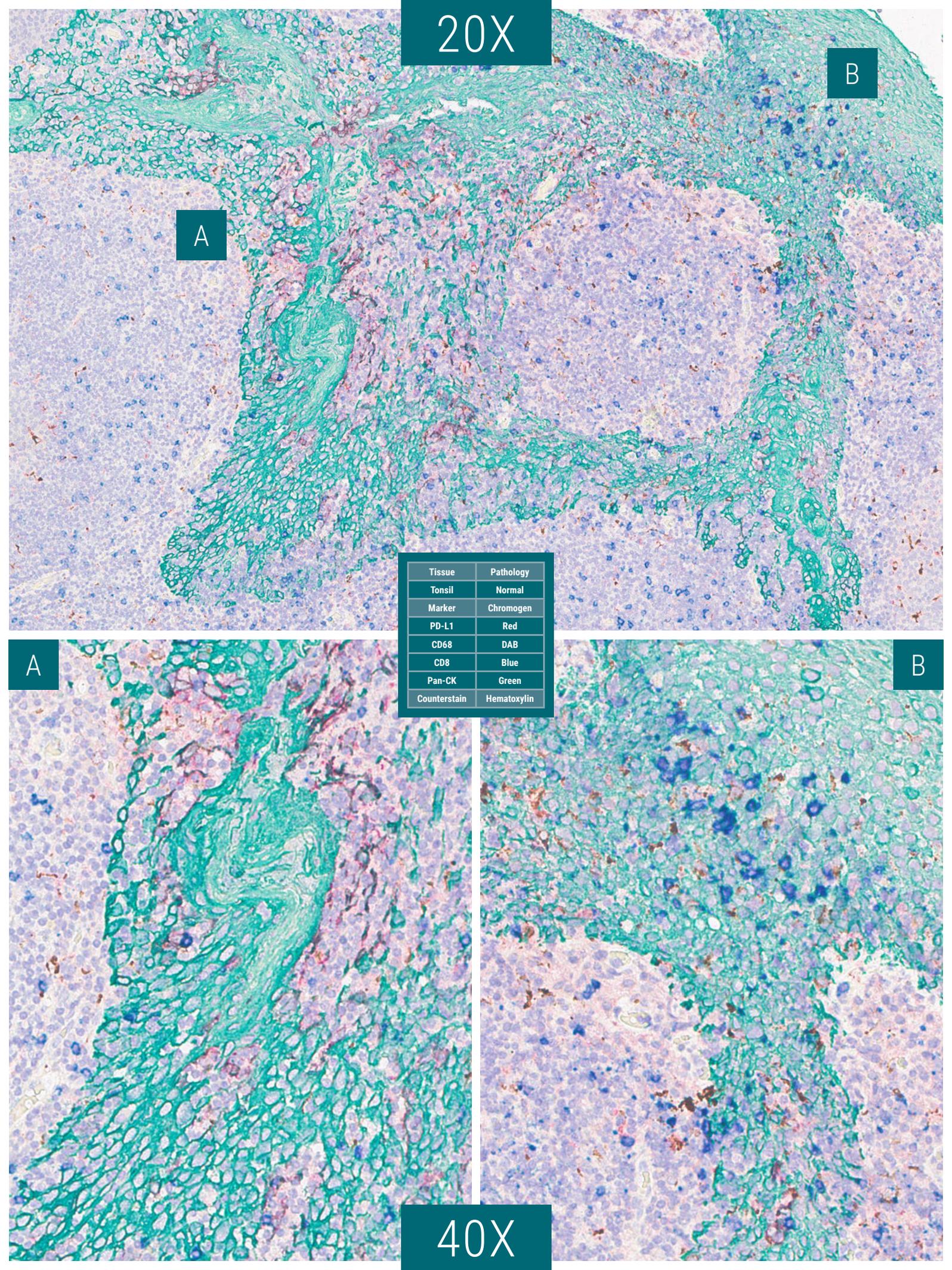
A

Tissue	Pathology
Tonsil	Normal
Marker	Chromogen
PD-L1	Red
CD68	DAB
CD8	Blue
Pan-CK	Green
Counterstain	Hematoxylin

A

B

40X



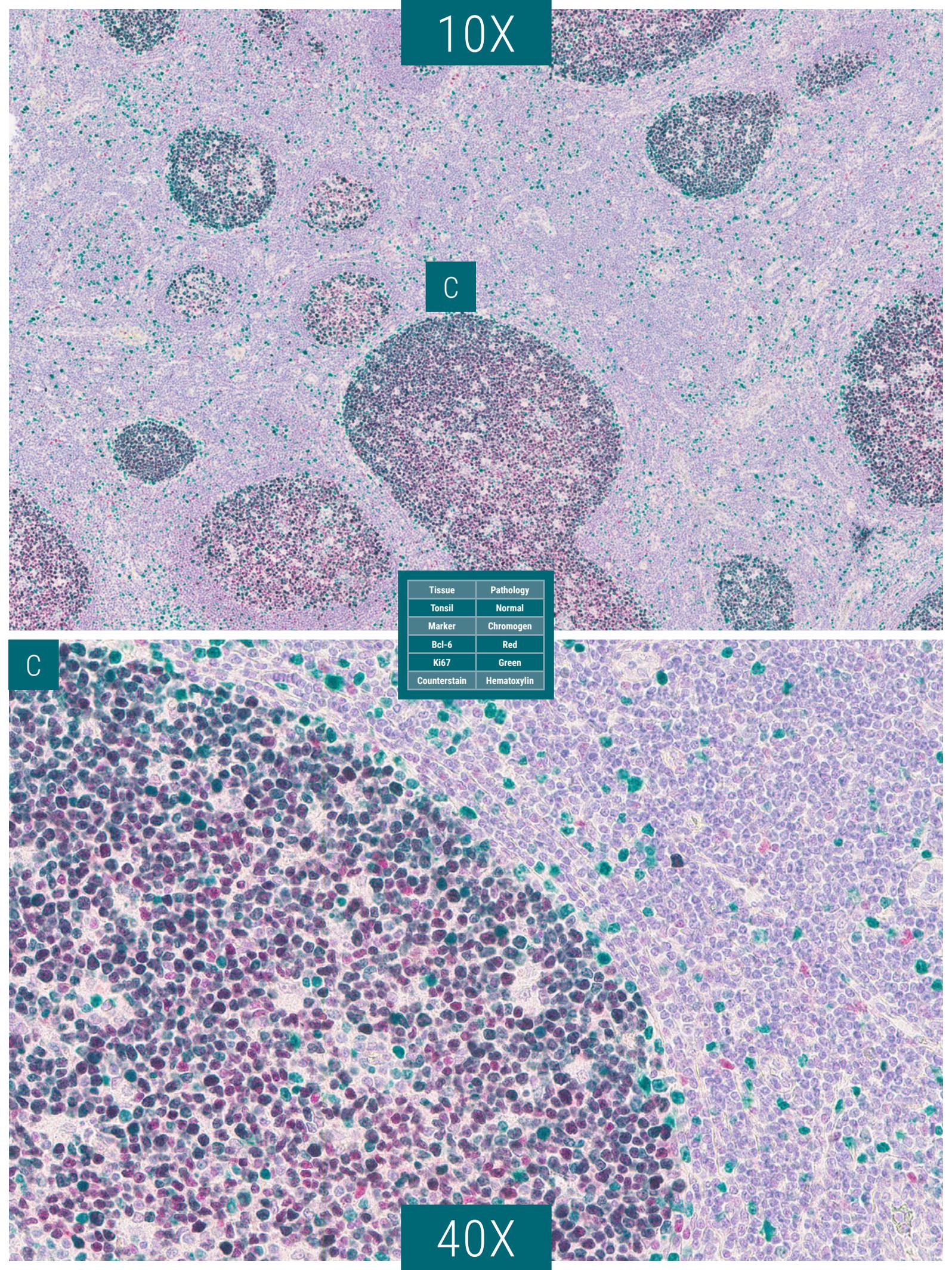
10X

C

Tissue	Pathology
Tonsil	Normal
Marker	Chromogen
Bcl-6	Red
Ki67	Green
Counterstain	Hematoxylin

C

40X



# CHOOSE YOUR PLEX

## MULTIPLEX DETECTION REAGENTS – BUILD YOUR OWN PLEX

**Design your custom detection and ideal staining protocol to meet the unique needs of your research project**

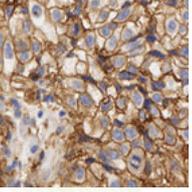
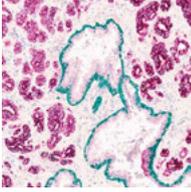
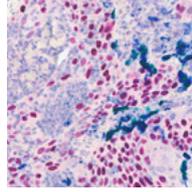
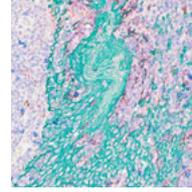
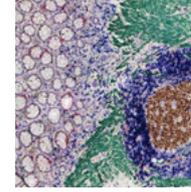
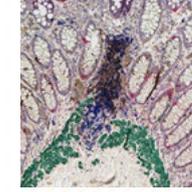
**Modular reagent system enables bespoke chromogen combinations**

**Flexible HRP-based detection system provides the solid foundation to a broad range of chromogen applications**

**BOND RX research stainer features simple, intuitive software for easy integration of multiplex staining into your existing workflow**

**Fully automated up to 6-plex staining**

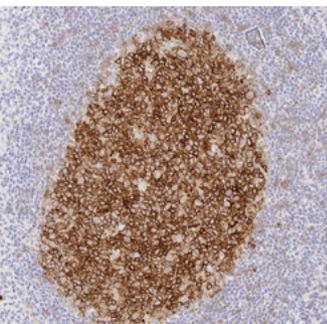
**Combine chromogenic and fluorescent multiplexing**

SINGLE-PLEX	DUAL-PLEX	3-PLEX	4-PLEX	5-PLEX	6-PLEX
					
1. PD-L1 - Brown	1. AMACAR - Red 2. CK5 - Green	1. Ki67 - Blue 2. AE1/AE3 - Green 3. CD4 - Red	1. CD34 - Brown 2. CDX2 - Red 3. CD20 - Blue 4. CD3 - Green	1. Ki67 - Brown 2. CD3 - Blue 3. Desmin - Green 4. Serotonin - Red 5. CK20 - Purple	1. Ki67 - Brown 2. CD3 - Blue 3. Desmin - Green 4. Serotonin - Red 5. CK20 - Purple 6. CD20 - Black

	DS9800 BOND POLYMER REFINE REFINE DETECTION	DS9390 BOND POLYMER REFINE RED DETECTION	DS9477 / DS9665 CHROMOPLEX 1 DUAL DETECTION FOR BOND	DS9914 BOND POLYMER REFINE HRP PLEX DETECTION		
DETECTION	HRP	AP	HRP + AP	HRP		
CHROMAGEN	BROWN	RED	BROWN & RED		DC9913 GREEN CHROMOGEN	DC9896 BLUE CHROMOGEN
COUNTERSTAIN	HEMATOXALIN	HEMATOXALIN	HEMATOXALIN		AR9895 RED COUNTERSTAIN	AR9915 HEMATOXYLIN COUNTERSTAIN

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# BOND DETECTION PRODUCT PORTFOLIO

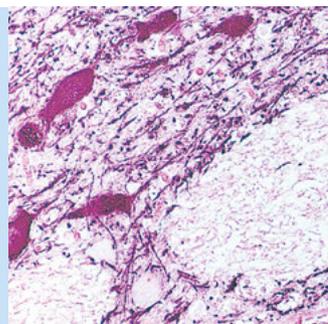


## DS9800 BOND Polymer Refine Detection

Featuring Compact Polymer detection system, this detection is biotin free, HRP-based detection including DAB chromogen and hematoxylin counterstain. It is supplied ready-to-use for the automated BOND system.

## DS9390 BOND Polymer Refine Red Detection

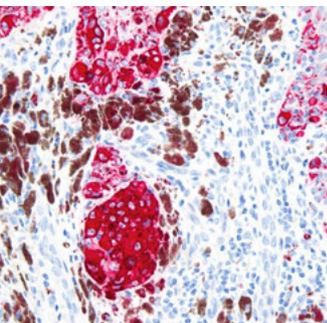
This biotin-free detection utilizes alkaline phosphatase (AP)-linked compact polymers to provide brilliant Fast Red chromogen and hematoxylin counterstain supplied in a convenient, ready-to-use format for IHC and chromogenic ISH.



## DS9477 / DS9665 ChromoPlex 1 Dual Detection for BOND

Achieve 1-step, fully automated parallel staining featuring both Refine HRP DAB and AP Red detections with rabbit antibodies staining red and mouse antibodies staining brown.

Available in both 100 test (DS9477) and 50 test formats (DS9665) to suit your workflow needs.



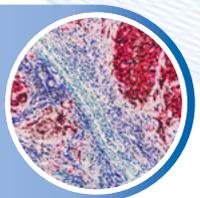
## DS9455 / DS9777 BOND Research Detection

BOND Research Detection System consists of 30 mL open containers in a reagent tray for complete user choice and configuration. DS9455 has 6 open containers while BOND Research Detection System 2 (DS9777) has 9 open containers.



## DS9914 BOND Polymer Refine HRP Plex Detection

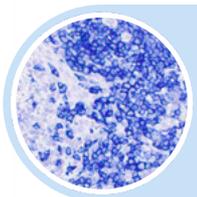
This detection offers researchers the ability to completely tailor their approach to fully automated, chromogenic multiplex staining. The base platform of peroxide block, post primary, and HRP polymer can be combined with a bespoke combination of chromogens and your counterstain of choice.



### BOND CHROMOGENS

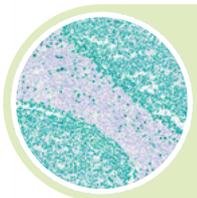
#### DC9896 Blue Chromogen

Provides a vibrant blue color contrast against other chromogens & counterstains including hematoxylin. Suitable for use with aqueous mounting media.



#### DC9913 Green Chromogen

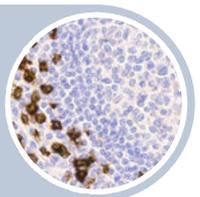
The intense green chromogen delivers striking contrast against numerous chromogen and counterstain combinations



### BOND COUNTERSTAINS

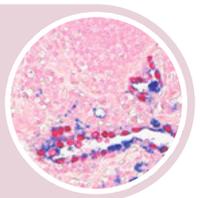
#### AR9915 Hematoxylin Counterstain

Hematoxylin Counterstain yields distinct nuclear detail and excellent contrast to your chromogens of choice



#### AR9895 Red Counterstain

Red Counterstain is a fast nuclear red stain providing remarkable contrast against a variety of chromogens.



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# ANTIBODY PORTFOLIO

**14**  
PATHOLOGY  
MENUS

**201**  
ANTIBODIES

**230**  
CLONES

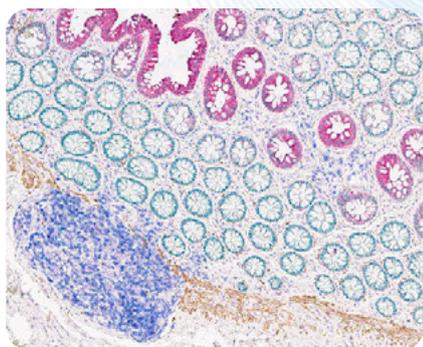
**169**  
BOND RTUS

**78**  
INDEPENDENTLY  
BENCHMARKED

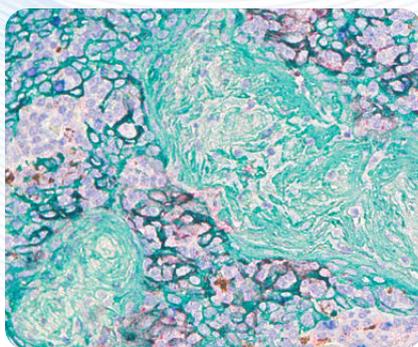
SPANNING 14 PATHOLOGY MENUS, LEICA BIOSYSTEMS OFFERS LABORATORIES A COMPREHENSIVE RANGE OF HIGH QUALITY ANTIBODIES FOR THE MOST DEMANDING WORKLOAD.

<b>Br</b> BREAST PATHOLOGY	<b>De</b> DERMATOPATHOLOGY	<b>Ga</b> GASTROINTESTINAL PATHOLOGY	<b>Gy</b> GYNEPATHOLOGY	<b>HNE</b> HEAD, NECK AND ENDOCRINE PATHOLOGY	<b>He</b> HEMATOPATHOLOGY	<b>IO</b> IMMUNO-ONCOLOGY
<b>Lu</b> LUNG PATHOLOGY	<b>MP</b> MUSCLE PATHOLOGY	<b>Ne</b> NEUROPATHOLOGY	<b>ST</b> SOFT TISSUE PATHOLOGY	<b>Sp</b> SPECIALIZED	<b>TD</b> TUMOR DIFFERENTIATION	<b>Ur</b> UROPATHOLOGY

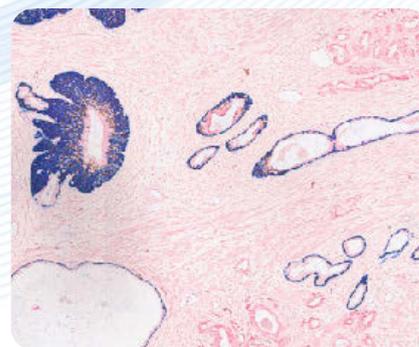
DESIGN THE NEXT BREAKTHROUGH ASSAY



Tissue - Colon  
**CK20** | **CDX2** | **CD3** | **Desmin**



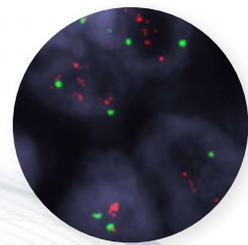
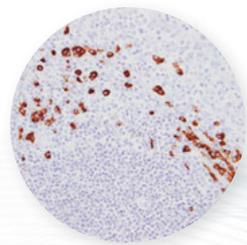
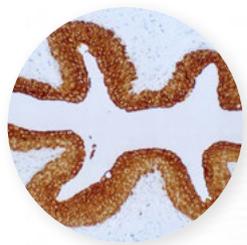
Tissue - Skin  
**PD-L1** | **CD68** | **CD8** | **Pan-CK**



Tissue - Prostate  
**AMACR** | **P40** | **CK5**

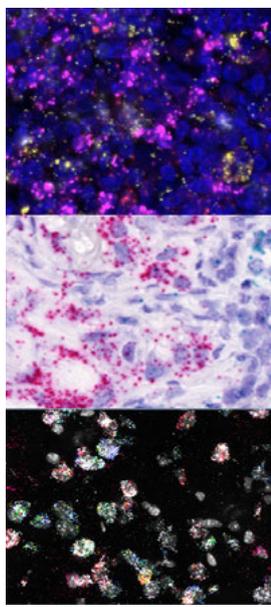
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# INNOVATION PARTNERS

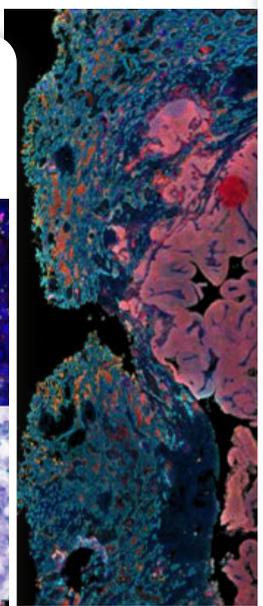


**IHC, ISH, FISH  
& MORE**

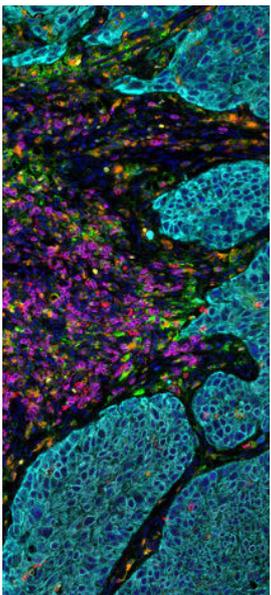
Innovative And Creative Partnerships Provide The Full Spectrum Of Answers To The Most Challenging Questions



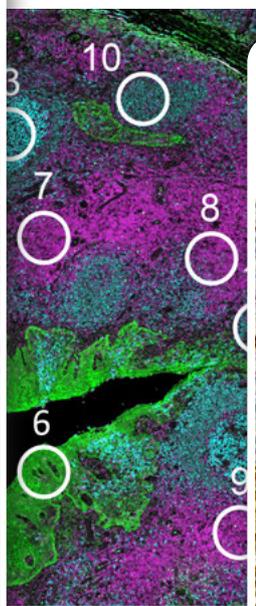
**Single, Multiplex  
& Highplex**



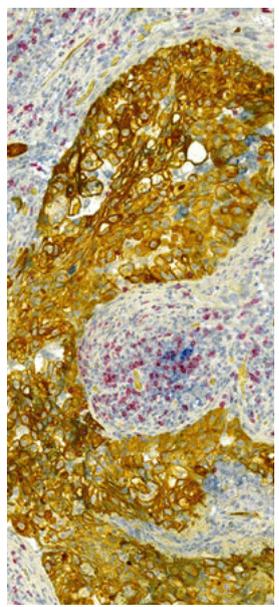
**Multiplex**



**Multiplex**



**Highplex &  
Multianalyte**



**Multiplex**

CONNECT WITH A WORLD OF PARTNERS

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# PRODUCT CODES

DETECTION for BOND	PRODUCT CODE
BOND Polymer Refine DAB Detection	DS9800
BOND Polymer Refine Red Detection	DS9390
BOND ChromoPlex1 Dual Detection (50 tests)	DS9665
BOND ChromoPlex1 Dual Detection (100 tests)	DS9477
BOND Polymer Refine HRP Plex Detection	DS9914
BOND Research Detection (6 x 30 mL open containers)	DS9455
BOND Research Detection 2 (9 x 30 mL open containers)	DS9777

CHROMOGENS for BOND	PRODUCT CODE
Blue Chromogen	DC9896
Green Chromogen	DC9913

COUNTERSTAINS for BOND	PRODUCT CODE
Hematoxylin Counterstain	AR9915
Red Counterstain	AR9895



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Leica Biosystems is a global leader in workflow solutions and automation. As the only company to own the workflow from biopsy to diagnosis, we are uniquely positioned to break down the barriers between each of these steps. Our mission of "Advancing Cancer Diagnostics, Improving Lives" is at the heart of our corporate culture. Our easy-to-use and consistently reliable offerings help improve workflow efficiency and diagnostic confidence. The company is represented in over 100 countries. It has manufacturing facilities in 9 countries, sales and service organizations in 19 countries, and an international network of dealers. The company is headquartered in Nussloch, Germany. Visit [LeicaBiosystems.com](http://LeicaBiosystems.com) for more information.

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