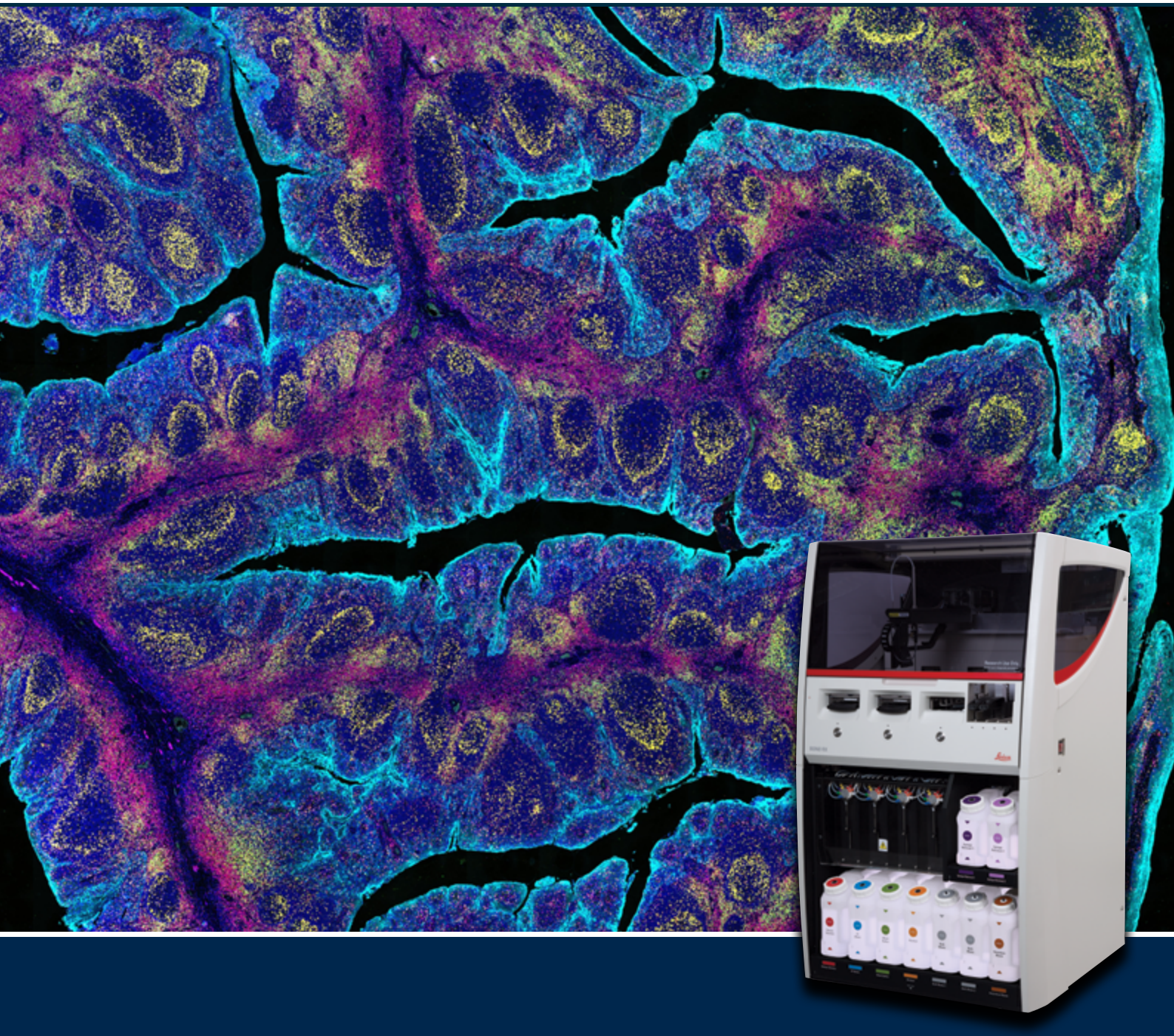
Advancing Cancer Diagnostics
Improving Lives

Leica
BIOSYSTEMS



Single Step Multiplexing – Fully Automated Ultivue UltiMapper Kits for BOND RX

RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

ACHIEVE SAME DAY MULTIPLEX STAINING AND ANALYSIS

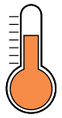
FULLY AUTOMATED SINGLE STEP MULTIPLEXING WITH ULTIVUE ULTIMAPPER KITS FOR BOND RX

Stain 30, five-color multiplexed slides in under six hours with the Ultivue UltiMapper single-step multiplex assay on the BOND RX. Spend less time perfecting difficult manual techniques and more time focusing on the next research breakthrough.

The UltiMapper kits on the BOND RX and BOND RX^{m} provide high-performance tissue-based biomarker multiplex assays for surveying and analyzing cell phenotypes with spatial context within the tumor microenvironment.

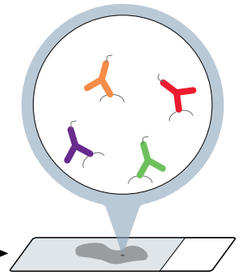
HIGH PERFORMANCE MULTIPLEXING WITH THE ULTIMAPPER PORTFOLIO

- Ultivue UltiMapper is an optimized assay for the BOND RX and BOND RX^{m}
- Initial products: UltiMapper I/O PD-L1 and PD-1 include four target colors and one counterstain
- Multiplex on a single slide, using a single antibody cocktail and incubation step, made possible by DNA-barcoded antibodies with unique, complementary, fluorescent DNA barcodes
- Preserve sample integrity for additional analyses without inducing tissue damage or cross talk
- Additional immuno-oncology kits and assays to follow



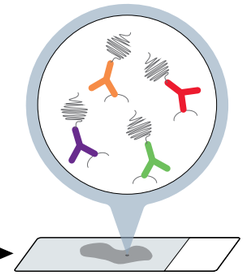
SINGLE STEP STAINING

Dewax and retrieve samples as usual



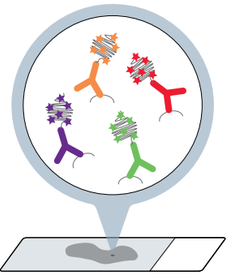
SINGLE STEP AMPLIFICATION

Unique DNA sequence attached to each antibody



SINGLE STEP DETECTION

Amplifies all targets simultaneously

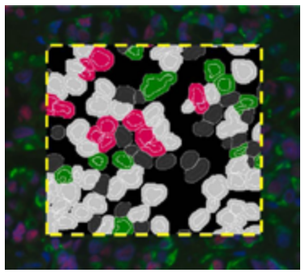


Adds complementary fluorescent DNA probes to bind targets

5-CHANNEL WHOLE SLIDE IMAGING

Aperio VERSA slide scanner
8 or 200 slide capability
automatic scanning and tissue finder

APERIO IMAGE ANALYSIS



Run analysis automatically for any batch size using Aperio Cellular IF algorithm: count and phenotype

LESS THAN SIX HOURS

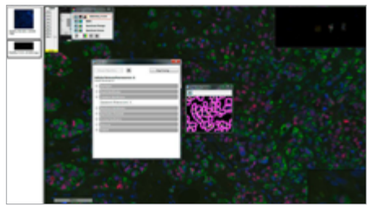
PUSH THE RESEARCH BOUNDARIES WITH BOND RX

The BOND RX platform delivers the consistency needed for detailed analysis. The unique Covertile system preserves tissue morphology and integrity so laboratories can get the most out of precious samples.

- Specify the test parameters of your choosing
- Reduce hands-on time compared to manual testing
- Virtually no daily maintenance
- Unlimited research application potential

IMAGING TO ANALYSIS WITH APERIO

The Aperio Solution enables accurate measurement and co-localization of the target UltiMapper fluorophores in a single tissue section, localized within membrane, nuclear and/or cytoplasmic cellular compartments. The algorithm results allow for easy interpretation of multiplex staining to generate cell phenotypes within tissue.



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AVAILABLE FROM LEICA BIOSYSTEMS | LEICABIOSYSTEMS.COM		
CAT #	Product Name and Description	Quantity
DS9455	BOND Research Detection System	1 kit
DS9777	BOND Research Detection System 2	1 kit
CS9100	BOND Aspirating Probe Cleaning System	1 system, 15 cleans
OPT9049	BOND Titration Kit	10 containers, 50 inserts
OP79193	BOND Open Containers (7 mL)	10 pack
OP309700	BOND Open Containers (30 mL)	10 pack
S21.4611	BOND Universal Covertiles	160 pack
AR9961	BOND Epitope Retrieval Solution 1	1L (RTU) each
AR9640	BOND Epitope Retrieval Solution 2	1L (RTU) each
S21.1971	BOND Mixing Stations	5 pack
AR9222	BOND Dewax Solution	1L (RTU)
AR9590	BOND Wash Solution (10x concentrate)	1L

AVAILABLE FROM ULTIVUE | ULTIVUE.COM		
CAT #	Product Name and Description	
ULT20101	UltiMapper I/O PD-L1 Kit (CD8, CD68, PD-L1, pan-CK/Sox10, & nuclear counterstain)	1 kit (10 slides)
ULT20102	UltiMapper I/O PD-1 Kit (CD3, CD45RO, PD-1, pan-CK/Sox10, & nuclear counterstain)	1 kit (10 slides)

AVAILABLE FROM THIRD-PARTY SUPPLIER		
CAT #	Product Name and Description	
P10144	ProLong™ Gold Antifade Mountant (ThermoFisher)	1 vial

LEICA BIOSYSTEMS

Leica Biosystems is a cancer diagnostics company and a global leader in workflow solutions. Only Leica Biosystems offers the most comprehensive portfolio that spans the entire workflow from biopsy to diagnosis. With unique expertise, we are dedicated to driving innovations that connect people across radiology, pathology, surgery and oncology. Our experts are committed to delivering Improved Quality, Integrated Solutions, and Optimized Efficiencies leading to breakthrough advances in diagnostic confidence. Our mission of "Advancing Cancer Diagnostics, Improving Lives" is at the heart of our corporate culture. The company is headquartered in Germany and operates in over 100 countries with manufacturing facilities in 9 countries. Visit LeicaBiosystems.com for more information.

Leica Biosystems – an international company with a strong network of worldwide customer services.
For detailed contact information on your nearest sales office or distributor please visit our website: LeicaBiosystems.com

ULTIVUE

Multiplexed biomarker assays in tissue for personalized medicine research and clinical pathology. By developing a single set of novel, proprietary reagents used both for biomarker discovery (higher content, low throughput) and clinical use (lower content, high throughput), Ultivue is connecting the insights gained from research directly into the pathology lab. Ultivue's UltiMapper™ multiplexed assays applied to tissue biopsy samples enable simultaneous quantitation of multiple biomarkers with sub-cellular spatial resolution and fit completely within traditional IHC workflows. Translational and clinical researchers leverage UltiMapper™ assays to elucidate complex biology and demonstrate their clinical utility as precision medicine tools. Ultivue is expanding its UltiMapper™ assay product portfolio and menu of contract research services to provide a comprehensive set of personalized medicine solutions for oncology and other therapeutic areas.
Ultivue is based in Cambridge, MA. For more information, visit Ultivue.com

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