



# Advanced Tissue Diagnostics

## Trusted Solutions



PRIMARY ANTIBODIES | FITC ANTIBODIES | CHROMOGENS | SPECIAL STAINS  
DETECTION SYSTEMS | ANTIGEN RETRIEVAL | ANCILLARY REAGENTS | INSTRUMENTATION

# About Us

Since 1994, Diagnostic BioSystems Inc. has been committed to enhancing immunohistochemistry results by providing innovative anatomic pathology reagents and systems to improve the practice of pathology. Since our inception, our prime focus has been to provide high quality products and exceptional customer service and support.

Diagnostic BioSystems provides cutting-edge In-Vitro Diagnostics to the anatomic pathology and histology market through direct sales in the domestic market (USA) and through international distributors to over 90 countries worldwide. Our product portfolio includes high quality Primary and Fluorescent Antibodies (FITC conjugated), Autostainers, Chromogens, Detection systems and a wide range of Ancillaries.

Diagnostic BioSystems is an **ISO 13485:2016** certified cGMP compliant, medical device manufacturer.

## Advanced Tissue Diagnostics

Trusted Solutions





## Primary Antibodies

Diagnostic BioSystems offers a wide range of antibodies in concentrated and RTU formats optimized for performing high quality staining applications.

We have mouse monoclonal antibodies as well as rabbit monoclonal and polyclonal antibodies. Our rabbit monoclonal antibodies offer enhanced specificity and sharp signals.

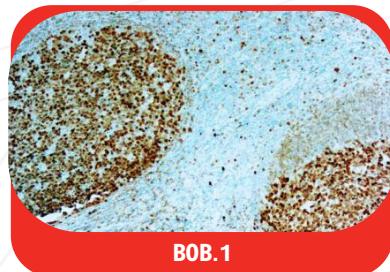
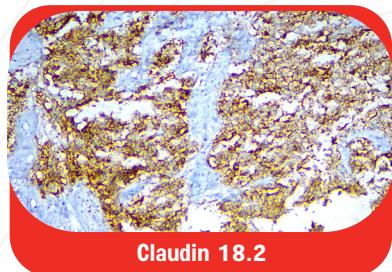
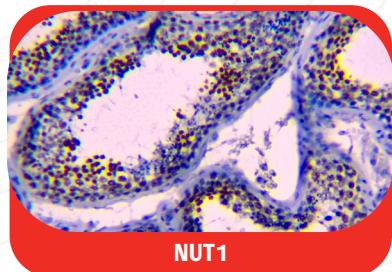
**Concentrated Antibodies:** Designed for individuals who want to have more flexibility in their immunostaining protocols. Concentrated antibodies are available in three convenient **pack sizes: 0.1ml, 0.5ml and 1ml.**

The suggested protocol and recommended dilution factor are provided in each antibody datasheet.

**RTU Antibodies:** These are ready-to-use and require no further dilution or titration. They are available in convenient **pack sizes of 2ml, 6ml, 10ml and 25ml.**

Diagnostic BioSystems ensures that each antibody is thoroughly tested according to the cGMP standards.

In our quest for excellence we are continuously adding new antibodies to our current portfolio.



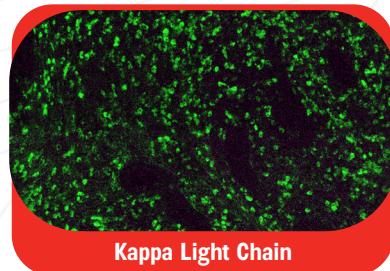
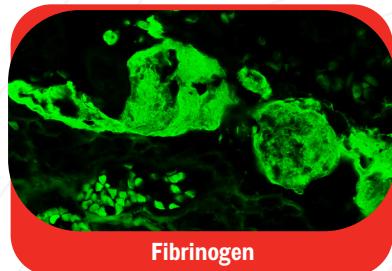
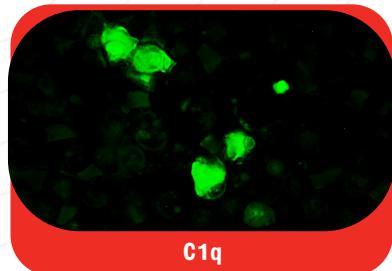
And more...

**400+**  
**ANTIBODIES**



## Conjugated Antibodies - FITC

Diagnostic BioSystems offers routinely used fluorescein isothiocyanate conjugated (FITC) antibodies for frozen tissues/FFPE.

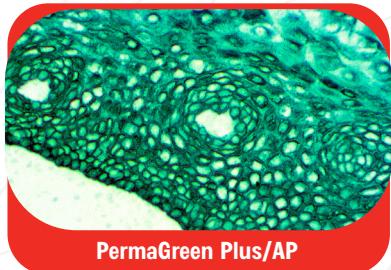


And more...



## Chromogens

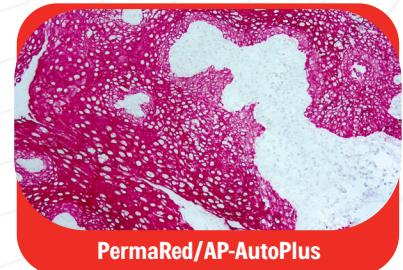
Diagnostic BioSystems offers novel proprietary chromogens in a wide array of colors with two commonly used enzyme labels: **Horse Radish Peroxidase (HRP)** and **Alkaline Phosphatase (AP)**. Use of high quality novel chromogens results in robust staining, making results reproducible with assured global quality.



PermaGreen Plus/AP



PermaYellow/HRP



PermaRed/AP-AutoPlus

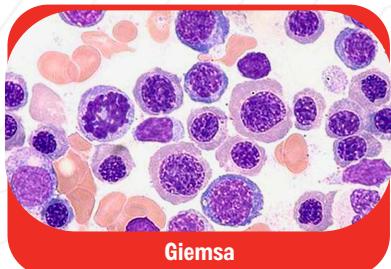
► [And more...](#)



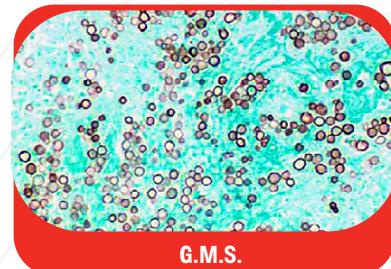
## Special Stains

Diagnostic BioSystems offers a wide range of special stains for the study and analysis of structure and function in biological tissues and cells. Specially formulated dyes and reagents provide color to cellular tissue components for microscopic examination.

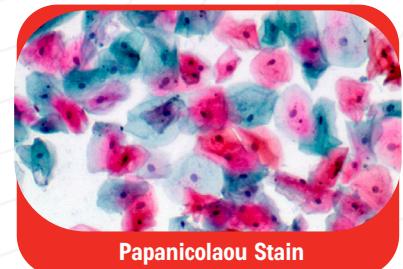
Each Diagnostic BioSystems special stain kit has been quality assured , comes with complete instructions for use and is sufficient for 100 tests.



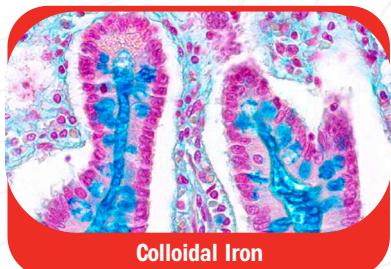
Giemsa



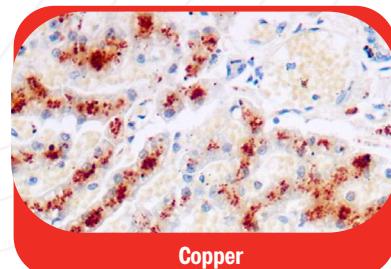
G.M.S.



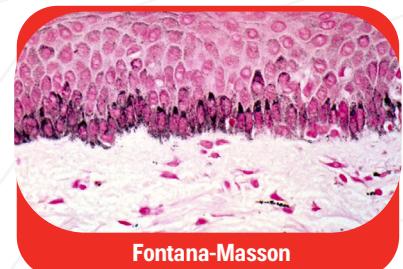
Papanicolaou Stain



Colloidal Iron



Copper



Fontana-Masson

► [And more...](#)



## Detection Systems

Diagnostic BioSystems offers 2 major types of **IHC detection systems**.

### UNOVUE™

One Step DAB Detection System



**UnoVue™**: A polymer based **One-step** detection system for biotin-free immunohistochemistry. It is developed by directly labelling immunoglobulins with enzymes using a proprietary tandem hyperlabelling technology.

### POLYVUE™

Two Step DAB Detection System



**PolyVue™ Plus**: A **Two-step** highly sensitive, biotin-free immunostaining detection system design to simultaneously detect mouse as well as rabbit antibodies. PolyVue™ Plus employs an enhancer reagent made of polymeric enzyme linked anti-rabbit and anti-mouse immunoglobulins for 2 detections. PolyVue™ Plus ensures higher sensitivity and crisp results.



**Detection Systems**

Visit us at [www.dbiosys.com](http://www.dbiosys.com) for more details.



## Antigen Retrieval

The Antigen Retrieval, Heat induced epitope retrieval (HIER) technique is a novel method for the recovery of antigens from formalin-fixed, paraffin-embedded tissue sections.

Montage Opus365™ is a compact and efficient fully digitalized platform which can process 96 slides in less than 30 minutes by using retrieval buffers of different pH in a single run with advantage of providing the user flexibility of setting time and temperature according to their protocol. DBS provides 500 ml of 10X Citrate buffer and 500 ml of 10X EDTA buffer along with Montage Opus365™ as free of cost.



Antigen Retrieval System

Ensures high quality IHC staining



## Ancillary Reagents

Diagnostic BioSystems offers a host of ancillaries including:

- Blocking reagents
- Enhancers
- Mounting media
- Diluents: For Primary and FITC antibodies
- PAP Pen: Available in two sizes
- Buffers: Wash Buffer and Antigen retrieval Buffers of various pH





## Instrumentation

**DBS HighLighter™ 360 Autostainer:** Fully automated instrument comes as a compact, benchtop 36 slide staining system. It performs all the steps of immunohistochemistry starting from baking to counterstaining while ensuring consistent and crisp staining.

### DBS **HighLighter™ 360** Autostainer



## Key Features

- Real time onboard DAB mixing
- Liquid sensors for accurate reagent handling and waste disposal to prevent overflow
- RFID reader for reagents vials, identifies and controls reagent consumption and expiration dates
- Consumes less than 2 liter of buffer for a full 36 slide run
- Separate containers for hazardous and non-hazardous waste to mitigate waste expense
- DBS HighLighter™ 360 Autostainer is delivered with optimized proprietary protocols for DBS antibodies and reagents
- Each slide can be programmed to run a different protocol
- A convenient run time display
- Programmable delayed run start
- Compatible with LIS and LIMS facility



36-SLIDE SYSTEM



ONBOARD DAB MIXING



LIQUID SENSORS



RFID READER

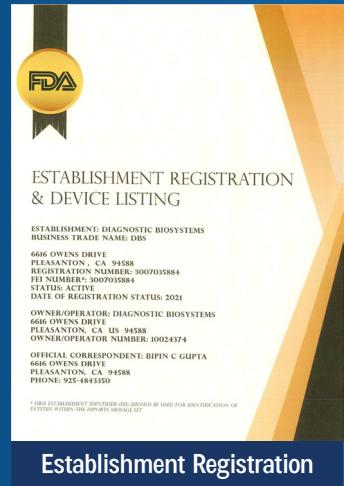


Visit us at [www.dbiosys.com](http://www.dbiosys.com) for more details.

## Strong Patent Protection

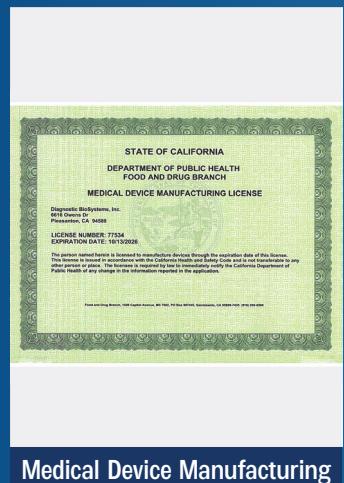
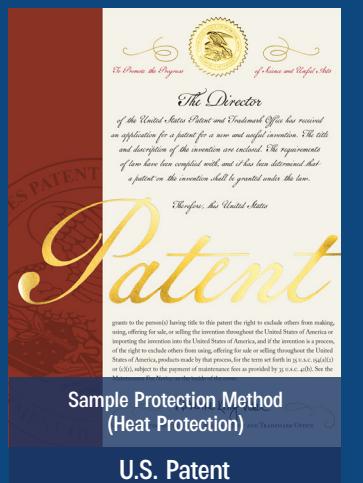
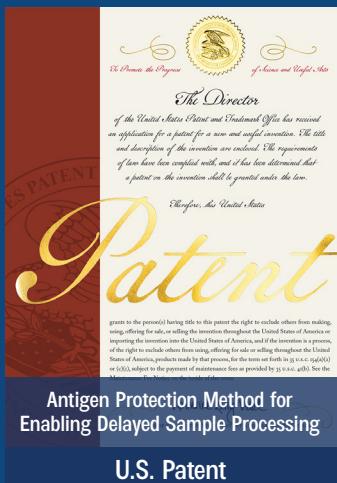
- 9 issued patents covering areas in Sealing fluid for microfluidic analyses, Staining Assay method, Concentration density differentials and Chromogen layering for color generation.
- 13 Patent Applications under process.
- Strong IP has enabled DBS to design and develop its own Antibodies, Detection systems, Chromogens Consumables and more.

## Regulatory Documents



US FDA

Establishment Registration



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