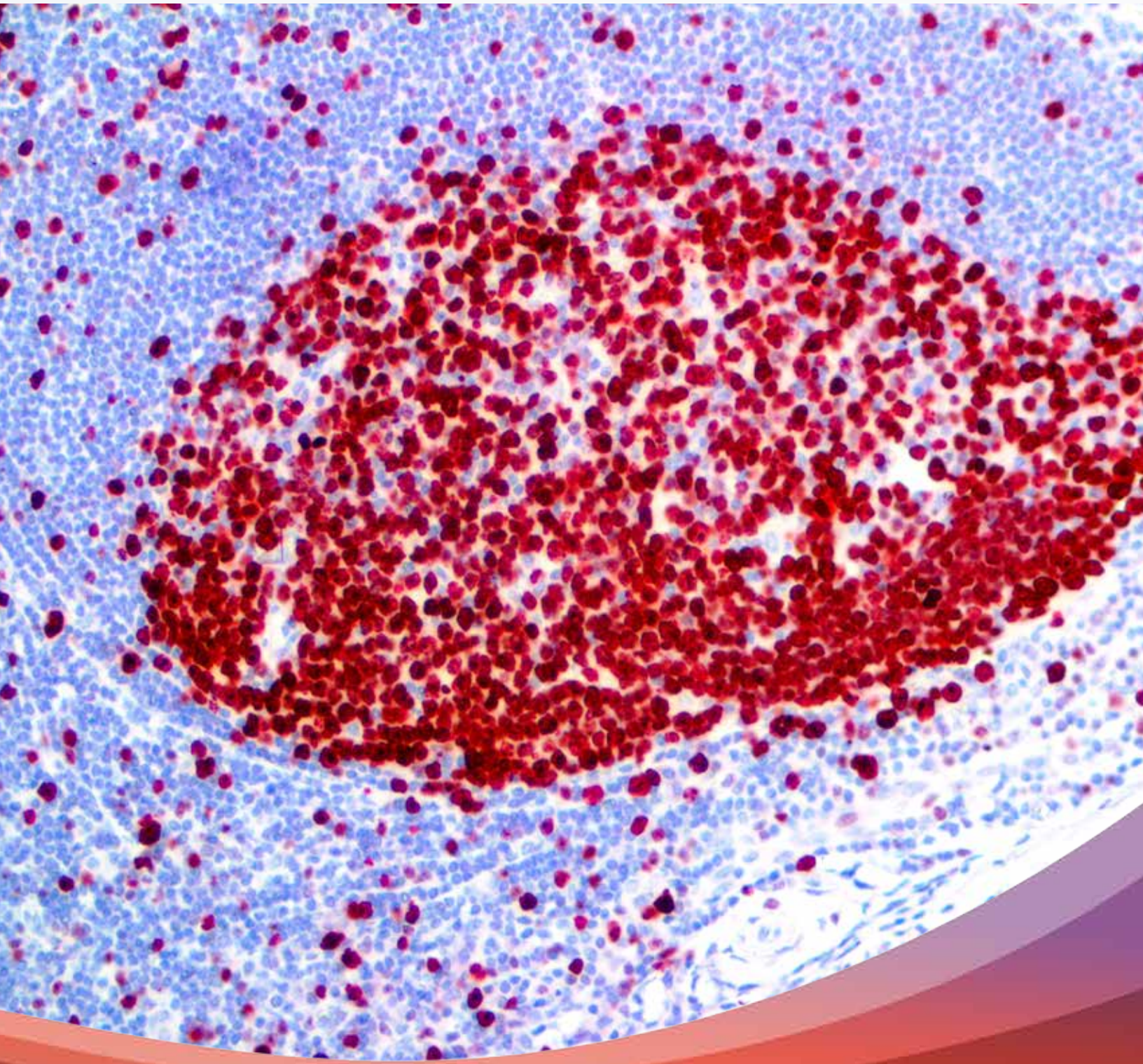
IMMUNOHISTOCHEMISTRY TECHNICAL GUIDE

Bio SB
BIOSCIENCE FOR THE WORLD

Simple Tips to Solve Common IHC Problems



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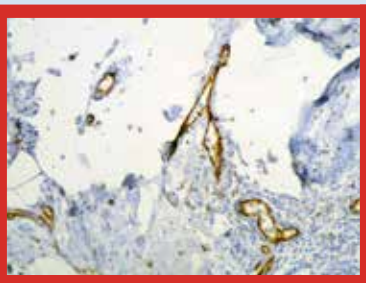
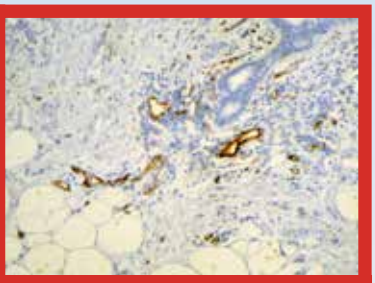
Tips for Common IHC Problems

Poor Tissue Adhesion

Poor Tissue adhestion leads to detachment, airbubbles, wrinkling and tissue damage. Stable and strong adhesion of a tissue specimen to the microscope slide surface is important for achieving successful and consitent sample preperation and IHC staining.

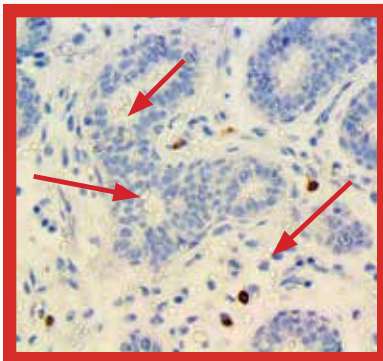


Hydrophobic Slides

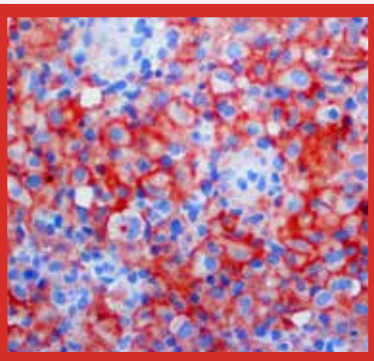


Bio SB Hydrophilic Plus Slides

Use our Bio SB Hydrophilic Plus Slides with over 3x as many charges to prevent tissue detachment and promote reagent dispersal over the entire working area of the slide. This ensures consistent and uniform results in Immunohistochemistry and a clearer picture of the tissue morphology.



Standard Deparaffinization



With Bio SB ChromoProtector

Residual Paraffin

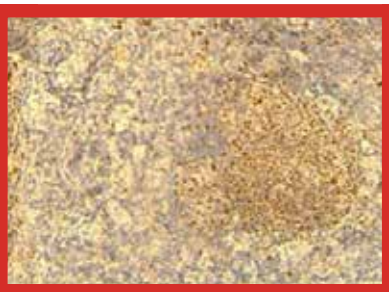
Microscopic paraffin residue can remain, even after HEIR and deparaffination steps are taken. This microparaffin residue can effect the specificity and sensitivity of the IHC signals.

Using our Bio SB ChromoProtector before mounting slides has been shown to completely eliminate paraffin or micro-paraffin residue.

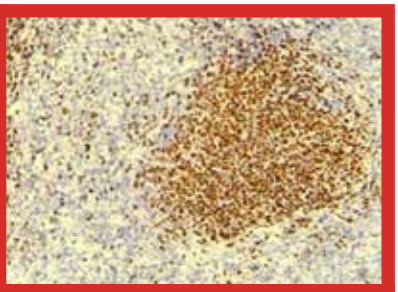
Bio SB ChromoProtector also protects substrate-chromogens that are soluble or fade with solvents prior to mounting with solvent mounting media and thus allows for a solvent-free environment when conducting IHC procedures.

Non-Specific Staining

Low affinity mouse monoclonal and rabbit polyclonal antibodies can sometimes cause to non-specific signals and background staining, which leads to an unclear diagnosis.



Cyclin D1, MMab



Bio SB Cyclin D1, RMab

Bio SB's Rabbit Monoclonal antibodies can have 10-100 times higher affinity than some mouse monoclonals for clear IHC results. Bio SB is proud to present over 220 Rabbit Monoclonal antibodies, one of the largest portfolios of RMab's available in the molecular pathology industry.

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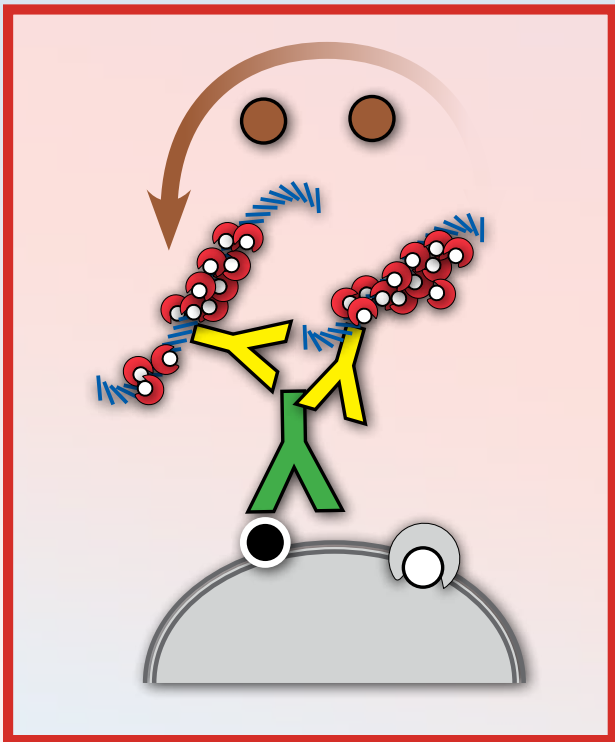
Tips for Common IHC Problems



Bio SB PolyDetector Plus Detection System

Weak Nuclear Detection

Weak nuclear signals and excessive background staining can be caused by low quality detection system chemistry.

Use our Bio SB Fab Mouse and Rabbit Polydetector Plus Micropolymer Detection System with a much smaller micro-polymer molecule compared to our competitors. You can achieve reliable, highly specific and sensitive nuclear staining, even on tough targets!

The PolyDetector Plus IHC Detection System incorporates an Immunoglobulin link and a Fab Micropolymer label. This multiple component Fab Micropolymer delivers a highly sensitive and specific signal even in a shorter time-frame than comparable polymeric detection systems.

Validation Needs

Finding simple, reliable means of validation is becomming increasingly important for In-vitro diagnostic and research labs.

Bio SB manufactures our own Tissue and Cell Line Microarrays in a variety of formats for all of your validation needs. Including normal tissue, various cancer tissues and cell lines, as well as hard-to-find Infectious Disease Cell Line Microarrays.

Bio SB 11-Core Cancer Human Tissue Microarray

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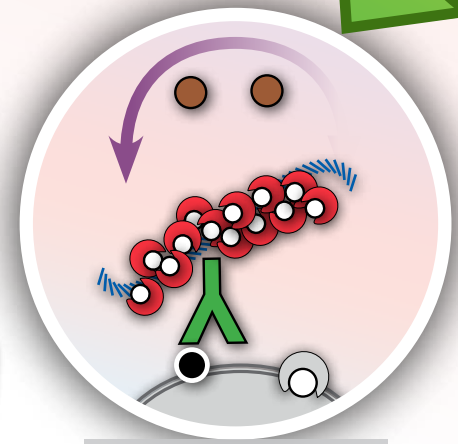
The Total Solution for IHC

Since its inception in Santa Barbara, California in 1998, Bio SB has been operating in an ISO 13485:2003 and FDA cGMP 820 approved facility, working to provid high quality & cost effective immunochemicals to researchers, clinicians, and pathologists worldwide. With our in-depth knowledge of immunohistochemical research, production, and manufacturing, Bio SB produces antibodies, ancillaries, detection chemistries and equipment that performs at the highest specifications in the IVD industry.

Deparaffinization & Retrieval
TintoDeparaffinator Citrate & EDTA
TintoRetriever PT Module & Pressure cooker

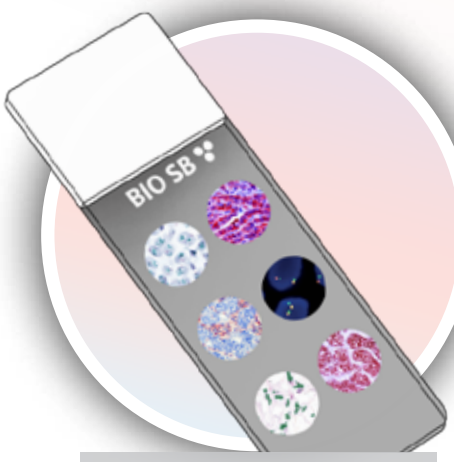
Automated IHC & ISH
TintoStainer
TintoDetector

Antibodies & Probes
TintoAntibodies



Detection Systems
PolyDetector
Micropolymer IgG Fab'

Solvent Free Mounting
ChromoProtector
XyGreen PermaMounter



Tissue & Cell Line Microarrays

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