



## Background Predator Kit

### Blocking Reagent

Control Number: 901-BP973-010611

ISO  
9001:2000  
CERTIFIED**Catalog Number:** BP973 H**Description:** 25 ml, Ready-to-use**Intended Use:**

For In Vitro Diagnostic Use

**Summary & Explanation:**

This kit can be used with any IHC protocol requiring avidin-biotin blocking. In most cases, endogenous biotin in tissue sections is masked by formalin fixation; however, if avidin-biotin IHC detection systems (Streptavidin) are used with tissues pretreated with a heat-induced, epitope retrieval method (HIER), an avidin-biotin blocking technique may be required.

**Known Applications:**

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

**Supplied As:**

The Background Predator kit consists of an avidin solution (pale pink) with incorporated protein block and of a concentrated biotin solution (blue)

**Materials and Reagents Needed But Not Provided:**

Microscope slides, positively charged  
Desert chamber\* (Drying oven)  
Positive and negative tissue controls  
Xylene (Could be replaced with a Xylene substitute\*)  
Ethanol or reagent alcohol  
Decloaking chamber\* (Pressure cooker)  
Deionized or distilled water  
Wash buffer\*(TBS/PBS)  
Pretreatment Reagents\*  
Enzyme Digestion\*  
Avidin-Biotin Blocking Kit\* (Labeled Streptavidin Kits Only)  
Peroxidase block\*  
Protein block\*  
Primary antibody\*  
Negative Control Reagents\*  
Detection Kits\*  
Detection Components\*  
Chromogens\*  
Hematoxylin\*  
Bluing Reagent\*  
Mounting media\*

\* BIOCARE MEDICAL PRODUCTS: Refer to a BIOCARE MEDICAL Catalog for further information regarding catalog numbers and ordering information. Certain reagents listed above are based on specific application and detection system used.

**Storage and Stability:**

Store at 2°C to 8°C. Do not use after expiration date printed on vial. If reagents are stored under conditions other than those specified in the package insert, they must be verified by the user. Diluted reagents should be used promptly; any remaining reagent should be stored at 2°C to 8°C.

**Protocol Recommendations:**

1. Deparaffinize and hydrate tissue sections/cells to water.
2. Quench endogenous peroxides with BIOCARE's PEROXIDAZED 1 for 3-5 minutes.
3. Optional: Pretreat tissues with the appropriate antigen retrieval solution (HIER) or protease digestion.
4. Incubate section or cells with BACKGROUND PREDATOR A for 20-30 minutes.
5. Rinse with TBS wash buffer.
6. Add 1 drop/ml(40ul) BACKGROUND PREDATOR B to a pre-titered antibody. Incubate on tissue or cells for 30 minutes-2 hours.
7. Rinse with TBS wash buffer.
8. Incubate with a biotinylated secondary antibody for 10-30 minutes.
9. Rinse with TBS wash buffer.

10. Apply Streptavidin-HRP and/or AP for 10-30 minutes
11. Rinse with TBS was buffer.
12. Apply chromogen for 5-15 minutes.
13. Rinse with TBS wash buffer and rinse in deionized water.
14. Counterstain and coverslip

**Protocol Notes:**

Pretreatment of tissues with the avidin solution should always be followed by incubation with the biotin solution. The avidin solution is color-coded with a pH indicator (Assure™ Technology). If the avidin solution turns from a pale pink to fuchsia, or from a pale pink to orange or yellow, the pH of the solution has changed and should not be used. The correct color of this solution will assure the end-user that proper pH and optimum performance is being maintained. The incorporation of avidin and protein block into a single reagent saves time. The biotin solution is a concentrated reagent added to the primary antibody and/or antibody cocktail thus reducing total time and additional steps for the procedure.

**Performance Characteristics:**

The protocols for a specific application can vary. These include, but are not limited to: fixation, heat-retrieval method, incubation times, tissue section thickness and detection kit used. Due to the superior sensitivity of these unique reagents, the recommended incubation times and titers listed are not applicable to other detection systems, as results may vary. The data sheet recommendations and protocols are based on exclusive use of BIOCARE products. Ultimately, it is the responsibility of the investigator to determine optimal conditions. These products are tools that can be used for interpretation of morphological findings in conjunction with other diagnostic tests and pertinent clinical data by a qualified pathologist.

**Quality Control:**

Refer NCCLS Quality Assurance for Immunocytochemistry approved guidelines, December 1999 MM4-A Vol.19 No.26 for more information on Tissue Controls.

**Precautions:**

This product is not classified as hazardous. The preservative used in this reagent is Proclin 950 and the concentration is less than 0.25%. Overexposure to Proclin 950 can cause skin and eye irritation and irritation to mucous membranes and upper respiratory tract. The concentration of Proclin 950 in this product does not meet the OSHA criteria for a hazardous substance. Wear disposable gloves when handling reagents. Specimens, before and after fixation and all materials exposed to them, should be handled as if capable of transmitting infection and disposed of with proper precautions. Never pipette reagents by mouth and avoid contacting the skin and mucous membranes with reagents and specimens. If reagents or specimens come in contact with sensitive areas, wash with copious amounts of water. Microbial contamination of reagents may result in an increase in nonspecific staining. Incubation times or temperatures other than those specified may give erroneous results. The user must validate any such change. The MSDS is available upon request. Consult OSHA, federal, state or local regulations for disposal of any toxic substances. Proclin™ is a trademark of Rohm and Haas Company, or of its subsidiaries or affiliates.

**Troubleshooting:**

Follow the reagent specific protocol recommendations according to data sheet provided. If atypical results occur, contact BIOCARE's Technical Support at 1-800-542-2002.

**Limitations & Warranty:**

There are no warranties, expressed or implied, which extend beyond this description. BIOCARE is not liable for property damage, personal injury, or economic loss caused by this product.

