

## XM Factor

### Blocking Reagent

Control Number: 902-XMF963-091017

**Catalog Number:** XMF963 C, G

**Description:** 1.0, 6.0 ml, Ready-to-use

**Intended Use:**

For Research Use Only. Not for use in diagnostic procedures.

**Summary & Explanation:**

The XM Factor is a potent blocker for eliminating endogenous mouse IgG in mouse tissues. It has been specially designed to work with Biocare's Rabbit-on-Rodent and Goat Polymer detection systems. XM Factor cannot be used with Mouse-on-Mouse AP or HRP polymer. By adding XM Factor to the polymer detection, endogenous mouse IgG is dramatically reduced and/or is completely eliminated. Biocare has also developed Rodent Block M that blocks for nonspecific background staining, and at the same time, also helps reduce endogenous mouse IgG. The combination of Rodent Block M and the XM Factor provide clean staining for mouse tissue protocols. It can also be used on an automated staining system.

**Known Applications:**

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

**Supplied As:**

Ready to use, blocking reagent with preservative

**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)  
Pretreatment reagents\*  
Enzyme digestion\*  
Avidin-Biotin Blocking Kit\* (Labeled streptavidin kits only)  
Peroxidase block\*  
Primary antibody\*  
Negative control reagents\*  
Detection kits\*  
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 any conditions other than those specified in the package insert, they must be verified by the user.

**Staining Protocol Recommendations:**

If endogenous mouse IgG is observed in the negative control, add 1-2 drops (1 drop equals 33µl) of the XM Factor to 2.5 ml of desired polymer detection. Mix well. Make solution 30 minutes prior to application.

**Staining Protocol Recommendations Cont'd:**

1. **Optional:** Apply Biocare's Rodent Block M for 15-30 minutes to reduce both non-specific background staining and endogenous mouse IgG. Wash in TBS buffer.
2. Apply primary antibody for 1-2 hours or overnight at 2-8°C. Wash in TBS wash buffer.
3. Apply desired polymer detection (with XM Factor) for 20-30 minutes. Wash in TBS wash buffer.
4. Apply DAB for 5 minutes or Warp Red for 5-7 minutes.
5. Rinse in DI water.

**Limitations:**

This product is provided for Research Use Only (RUO) and is not for use in diagnostic procedures. Suitability for specific applications may vary and it is the responsibility of the end user to determine the appropriate application for its use.

**Precautions:**

1. 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.
2. 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.
3. Microbial contamination of reagents may result in an increase in nonspecific staining.
4. Incubation times or temperatures other than those specified may give erroneous results. The user must validate any such change.
5. Do not use reagent after the expiration date printed on the vial.
6. The SDS is available upon request and is located at <http://biocare.net>.
7. 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.

**Technical Support:**

Contact Biocare's Technical Support at 1-800-542-2002 for questions regarding this product.