

XR Factor

Blocking Reagent

Control Number: 902-XRF964-091017

Catalog Number: XRF964 C, G

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

Intended Use:

For Research Use Only

Summary & Explanation:

The XR Factor is a potent blocker for eliminating endogenous rat IgG. By adding XR Factor to BIOCARE's Mouse on Rat, Goat Polymer or Rabbit on Rodent polymer detection, endogenous rat IgG will dramatically be reduced or completely eliminated. BIOCARE has also developed Rodent Block R that blocks for nonspecific background staining, and at the same time, reduces endogenous rat IgG. The combination of Rodent Block R and the XR Factor allows primary goat, rabbit and mouse antibodies to be used on rat tissues. 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/PBS)
Pretreatment Reagents*
Enzyme Digestion*
Avidin-Biotin Blocking Kit* (Labeled Streptavidin Kits Only)
Peroxidase 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:

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

1. **Optional:** Prior to the application of the primary antibody, apply BIOCARE's Rodent Block R for 15-30 minutes to reduce both non-specific background staining and endogenous rat 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 XR Factor) for 20-30 minutes. Wash in TBS wash buffer.
4. Apply DAB for 5 minutes or Fast Red for 10-15 minutes.
5. Rinse in DI water

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 antibody 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.