

Mouse Detective

Blocking Reagent
902-MD975-071417

BIOCARE
M E D I C A L

Catalog Number: MD975 G, H
Description: 6.0, 25 ml, Ready-to-use

Intended Use:

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

Summary & Explanation:

Mouse Detective is an immunohistochemical reagent designed for blocking endogenous mouse IgG in mouse tissues and red blood cells. After the application of mouse detective, a mouse monoclonal antibody can be applied followed by a biotinylated mouse link and Streptavidin label used for detection of mouse on mouse. It can also be used on an automated staining system.

Known Applications:

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

Supplied As:

Mouse Detective is a proprietary blocking reagent and 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.

Protocol Recommendations:

For immunohistochemistry, Mouse Detective should be applied prior to primary antibody as follows:

1. Block with Biocare's Peroxidized 1 for 5 minutes.
2. Wash in 2 changes of PBS.
3. Apply appropriate blocking protein for 5 to 10 minutes. Drain.
4. Apply Mouse Detective on tissues or cells for 30-60 minutes. Wash in 2 changes of PBS.
5. Apply primary antibody. For optimum staining, incubate primary antibody 1-2 hours at room temperature, or overnight at 4°C. Wash in 2 changes of PBS.

Protocol Recommendations cont'd:

6. Apply a goat anti-mouse, biotinylated link for 5 minutes. Wash in 2 changes of PBS.
7. Apply a Streptavidin-HRP label for 15 minutes. Wash in 2 changes of PBS.
8. Apply chromogen of choice for 5 to 10 minutes. Wash in deionized water.
9. Counterstain with hematoxylin for 30 seconds to 2 minutes. Wash in water.
10. Blue nuclei in PBS for 1 minute. Wash in water
11. Dehydrate in alcohol, clear in xylene or xylene-substitute, and coverslip.

Protocol Notes:

Mouse Detective may have certain limitations depending on the type of mouse tissue used. Tissues, such as spleen or other tissues with large amounts mouse IgG may be difficult to block completely. In such cases, we recommend Biocare's MM Biotinylation Kit.

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 to NCCLS Quality Assurance for Immunocytochemistry approved guidelines, December 1999 MM4-A Vol.19 No.26 for more information on tissue controls.

Precautions:

Reagents contain less than 0.1% Sodium azide. Concentration less than 0.1% is not reportable hazardous material according to U.S. 29 CFR 1910.1200, OSHA Hazard communication and EC Directive 91/155/EC.

Sodium azide (NaN₃) used as a preservative is toxic if ingested. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. Upon disposal, flush with large volumes of water to prevent azide build-up in plumbing. (Center of Disease Control, 1976, National Institute of Occupational Safety and health, 1976).

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.



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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.