

**4plus Biotinylated Horse Anti-Mouse IgG (Rat adsorbed)**

Biotinylated, Affinity-Purified Horse Anti-Mouse (H+L)

Detection Component

Control Number: 901-HM606-082914

ISO  
9001&13485  
CERTIFIED**Catalog Number:** HM606 H, L**Description:** 25, 100 ml**Intended Use:**

For In Vitro Diagnostic Use

**Summary & Explanation:**

This biotinylated antibody reacts with heavy and light chains on mouse IgG. It reacts with all mouse IgG subclasses and mouse IgM. It has been affinity-purified with minimal cross-reaction to rat, human, bovine, dog, rabbit, goat and sheep proteins. A long spacer arm has been positioned between the biotin and the secondary antibody, which provides a significant increase in sensitivity when coupled with streptavidin conjugates. Biocare's Horse Anti-Mouse IgG can be used with either streptavidin horseradish peroxidase or streptavidin alkaline phosphatase label.

**Known Applications:**

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

**Supplied As:**

Affinity-purified horse anti-mouse IgG (H+L) rat adsorbed in buffer with protein carrier 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\*

Protein block\*

Primary antibody\*

Negative Control Reagents\*

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.

**Species Reactivity:**

Mouse IgG heavy and light chains

**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:****Deparaffinization:**

Deparaffinize slides in Slide Brite or xylene. Hydrate slides in a series of graded alcohol to water.

**Peroxide Block:**

Block for 5 minutes with Biocare's Peroxidized 1.

**Pretreatment Solution/Protocol:**

Please refer to the respective primary antibody datasheet for recommended pretreatment solution and protocol.

**Protein Block:**

Incubate for 10-15 minutes at RT with Biocare's Background Sniper.

**Primary Antibody:**

Please refer to the respective primary antibody datasheet for incubation time.

**Link:**

Incubate for 10 minutes at RT with 4plus Horse Anti-Mouse IgG Link.

**Label:**

Incubate for 10 minutes at RT with 4plus Streptavidin-HRP or Streptavidin-AP Label.

**Chromogen:**Incubate for 5 minutes at RT when using Biocare's DAB. - **OR** - Incubate for 10-20 minutes at RT when using Biocare's Vulcan Fast Red.**Counterstain:**

Rinse with deionized water. Incubate for 30-60 seconds with Tacha's Automated Hematoxylin. Rinse with deionized water. Apply Tacha's Bluing solution for 1 minute.

**Technical Notes:**

This antibody has been rat adsorbed. Some primary mouse antibodies may not cross-react with this secondary antibody or titer may decrease significantly. Do not use goat serum blockers or Biocare's Background Eraser. Use TBS for washing steps.

**Protocol Notes:**

The optimum antibody dilution and protocols for a specific application can vary due to many factors. These include, but are not limited to: fixation, incubation times, tissue section thickness and detection kit used. The data sheet's recommendations and protocols are based on exclusive use of Biocare products. 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. Ultimately, it is the responsibility of the investigator to determine optimal conditions.

**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.

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CERTIFIED**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 (NaN<sub>3</sub>) 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.

**Troubleshooting:**

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