

# MACH 2 Mouse HRP-Polymer

## Goat Anti-Mouse-HRP Secondary Antibody

### Polymer Detection Component

Control Number: 902-520A-082517

**Catalog Number:** BRR520A G, H, L, MM

**Description:** 6.0, 25, 100, 1000 ml

**Intended Use:**

For Research Use Only. Not for use in diagnostic procedures

**Summary & Explanation:**

MACH 2 Mouse HRP-Polymer Detection is a one-step micro-polymer detection system that combines superior workflow and sensitivity for mouse primary antibodies. The horseradish peroxidase (HRP) labeled goat anti-mouse micro-polymer secondary antibody reacts with heavy and light chains on mouse IgG of all subclasses. The innovative micro-polymer technology provides a 3- to 4- fold increase in nuclear staining sensitivity and 2-fold increase in cytoplasmic / cell surface staining when compared to conventional dextran backbone polymer. Avidin-biotin blocking procedures are eliminated when using the MACH 2 conjugated secondary antibodies. This detection kit consists of a conjugated goat anti-mouse micro-polymer HRP to be used manually and on automated stainers.

**Known Applications:**

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

**Supplied As:**

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. Diluted reagents should be used promptly; any remaining reagent should be stored at 2°C to 8°C.

**Protocol Recommendations:**

**Deparaffinization:**

Deparaffinize slides in xylene or a xylene substitute. 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 (Optional):** 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.

**Polymer:** Incubate for 30 minutes at RT with MACH 2 Mouse HRP-Polymer.

**Chromogen:** Incubate for 5 minutes at RT when using Biocare's DAB.

**Counterstain:**

Counterstain with Hematoxylin. Rinse with deionized water. Apply Tacha's Bluing solution for 1 minute. Rinse with deionized water.

**Technical Notes:**

1. Primary Antibody titers can be dramatically increased when using Biocare's Revival Series Diluents and Heat Retrieval Solutions. Talk to your Biocare Sales Representative.

2. 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 CLSI Quality Standards for Design and Implementation of Immunohistochemistry Assays; Approved Guideline-Second edition (I/LA28-A2). CLSI Wayne, PA, USA (www.clsi.org). 2011

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**Precautions:**

This product is not classified as hazardous. The preservative used in this reagent is Proclin 300 and the concentration is less than 0.25%. Overexposure to Proclin 300 can cause skin and eye irritation and irritation to mucous membranes and upper respiratory tract. The concentration of Proclin 300 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.

