

# MACH 2 Mouse AP-Polymer

## Goat Anti-Mouse AP Polymer Secondary Antibody

### Detection Component

Control Number: 902-521-090717

**Catalog Number:** BRR 521 G, H, L

**Description:** 6, 25, 100 ml

#### **Intended Use:**

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

#### **Summary & Explanation:**

The conjugated goat anti-mouse polymer-alkaline phosphatase (AP) secondary antibody reacts with heavy and light chains on mouse IgG. It reacts with all mouse IgG subclasses and with mouse IgM. The innovative AP-polymerization technology provides a significant increase in staining sensitivity when compared to other conventional AP-conjugated secondary antibodies. Avidin-biotin blocking procedures are not necessary when using the MACH 2 conjugated secondary antibodies. The overall staining procedure uses one less reagent (streptavidin peroxidase) and rinsing step, eliminates avidin-biotin blocking procedures, and may reduce overall staining time. It can be used manually and on automated stainers.

#### **Known Applications:**

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

#### **Supplied As:**

##### **6ml**

MACH 2 AP-Polymer (BRR521G) 6ml

##### **25ml**

MACH 2 AP-Polymer (BRR521H) 25ml

##### **100ml**

MACH 2 AP-Polymer (BRR521L) 100ml

#### **Materials and Reagents Needed But Not Provided:**

Microscope slides, positively charged  
Desert Chamber\* (Drying oven)  
Positive and negative tissue controls  
Xylene (Could be substituted with xylene substitute\*)  
Ethanol or reagent alcohol  
Decloaking Chamber\* (Pressure cooker)  
Deionized or distilled water  
Wash buffer\*(TBS/PBS)  
Pretreatment reagents\*  
Enzyme digestion\*  
Peroxidase block\*  
Protein block\*  
Primary antibody\*  
Negative control reagents\*  
Chromogens\*  
Hematoxylin\*  
Bluing reagent\*  
Mounting medium\*

\* 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; mouse IgM

#### **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 alcohols to water.

**Peroxide Block (Optional):** 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 5-10 minutes at room temperature (RT) with Biocare's Background Punisher.

**Primary Antibody:** Please refer to the respective primary antibody datasheet for incubation time.

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

**Chromogen:** Incubate for 5-7 minutes at RT when using Biocare's Warp Red.

**Counterstain:** Counterstain with hematoxylin. Rinse with deionized water. Apply Tacha's Bluing Solution for 1 minute. Rinse with deionized water.

#### **Technical Notes:**

1. Use TBS wash buffer only. PBS wash buffers will inhibit alkaline phosphatase staining.

2. Primary antibody titers can be dramatically increased when using Biocare's Revival Series Diluents and Heat Retrieval Solutions.

#### **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.

#### **Precautions:**

1. 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.  
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 expiration date printed on the vial.  
6. The MSDS is available upon request and is available at <http://biocare.net/support/msds/>.  
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.

#### **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 use.

#### **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 the product.

Product may be covered by one or more of the following US Pat. Nos. 6,686,461; 6,800,728; 7,102,024; 7,173,125; 7,462,689.