

# Universal Negative Control Serum

## Negative Control

Control Number: 901-NC498-081917

**Catalog Number:** NC498 AA, H, L, MM

**Description:** 6.0, 25, 100 ml, 1L, prediluted

**Intended Use:**

For In Vitro Diagnostic Use

**Summary and Explanation:**

The Universal Negative Control Serum can be used with any of Biocare's mouse and/or rabbit streptavidin kits. It is intended for use as a negative control for either mouse or rabbit antibodies. The Universal Negative Control Serum has been titered for Biocare's monoclonal and polyclonal antibodies, and antibody cocktails. It can also be used on an automated staining system such as the IntelliPATH™.

For all of Biocare's polymer detection systems please use NC499, Polymer Negative Control Serum.

**Principle of Procedure:**

Universal Negative Control Serum is used in place of a mouse or rabbit primary antibody with a section of each patient specimen to evaluate nonspecific staining, this allows for better interpretation of specific staining at the antigen site. This control is easy to achieve and can be used routinely in immunohistochemical staining.

**Source:** Purified Mouse and Rabbit Immunoglobulins

**Isotype:** IgG<sub>1</sub>/kappa

**Total IgG Concentration:** ~1 µg/ml

**Known Applications:**

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

**Supplied As:** Purified mouse IgG and rabbit IgG in buffer with 1% BSA and preservative.

**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:**

**Peroxide Block:** Block for 5 minutes with Biocare's Peroxidized 1.

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

**Pretreatment Protocol:** Please refer to the respective primary antibody datasheet for recommended pretreatment solution and protocol.

**Negative Control:** Use Universal Negative Control Serum in place of the primary antibody with a section of each patient specimen.

**Link:** Incubate for 10 minutes at RT with a link.

**Label:** Incubate for 10 minutes at RT with a label.

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

**Technical Note:**

This reagent has been standardized with Biocare's 4plus detection system.

**Performance Characteristics:**

The optimum antibody dilution and 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:**

This antibody contains less than 0.1% sodium azide. Concentrations less than 0.1% are not reportable hazardous materials 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 for 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 antibody specific protocol recommendations according to data sheet provided. If atypical results occur, contact Biocare's Technical Support at 1-800-542-2002.

**Limitations and 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.