

4plus Biotinylated Universal Goat Link

Biotinylated, Affinity-Purified Goat Anti-Mouse and Rabbit IgG (H+L)
Detection Component
901-GU600-031418

BIOCARE
M E D I C A L

Catalog Number: GU600 H, L

Description: 25, 100 ml

Intended Use:

For In Vitro Diagnostic Use

4plus Biotinylated Universal Goat Link is a biotinylated antibody used in the detection of mouse or rabbit antibodies in formalin-fixed, paraffin-embedded (FFPE) tissues in an immunohistochemistry (IHC) procedure. The clinical interpretation of any staining or its absence should be complemented by morphological studies and proper controls and should be evaluated within the context of the patient's clinical history and other diagnostic tests by a qualified pathologist.

Summary & Explanation:

This biotinylated antibody reacts with heavy and light chains on mouse and rabbit IgG. It reacts with all mouse IgG subclasses and mouse IgM. It has been affinity-purified with minimal cross-reaction to human, bovine and horse serum 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 Universal Link can be used with either streptavidin horseradish peroxidase or streptavidin alkaline phosphatase detection systems.

Known Applications:

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

Supplied As:

Affinity-purified goat anti-mouse and rabbit IgG (H+L) 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 substituted with xylene substitute*)
Ethanol or reagent alcohol
Decloaking Chamber* (Pressure cooker)
Deionized or distilled water
Wash buffer* (TBS)
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 medium*

* Refer to the Biocare Medical website located at <http://biocare.net> for information regarding catalog numbers and ordering information.

Species Reactivity:

Mouse and rabbit 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 alcohols to water.

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

Pretreatment Solution/Protocol: Please refer to the respective primary antibody data sheet for recommended pretreatment solution and protocol.

Avidin/Biotin Block:

Incubate for 10-20 minutes at RT with Biocare's Avidin.

Incubate for 10-20 minutes at RT with Biocare's Biotin.

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

Protocol Recommendations Cont'd:

Primary Antibody: Please refer to the respective primary antibody data sheet for incubation time.

Link: Incubate for 10 minutes at RT with 4plus Universal Link.

Label: Incubate for 10-20 minutes at RT with 4plus Streptavidin HRP or Streptavidin AP label.

Chromogen: Incubate for 5 minutes at RT with Biocare's DAB – OR – Incubate for 5-7 minutes at RT with 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 Note:

Use TBS for washing steps.

Limitations:

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. The clinical interpretation of any positive or negative staining should be evaluated within the context of clinical presentation, morphology and other histopathological criteria by a qualified pathologist. The clinical interpretation of any positive or negative staining should be complemented by morphological studies using proper positive and negative internal and external controls as well as other diagnostic tests.

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

Precautions:

1. This product is not classified as hazardous. The preservative used in this reagent is Proclin 950 and the concentration is less than 0.25%. Overexposure to Proclin 950 can cause skin and eye irritation and irritation to mucous membranes and upper respiratory tract. The concentration of Proclin 950 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 the expiration date printed on the vial.
6. The SDS is available upon request and is located at <http://biocare.net>.
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.

Troubleshooting:

Follow the reagent specific protocol recommendations according to the data sheet provided. If atypical results occur, contact Biocare's Technical Support at 1-800-542-2002.