

## Rodent Decloaker, 10X

Pretreatment Reagent

Control Number: 902-RD913-021215

**Catalog Number:** RD913 L, M

**Description:** 100, 500 ml; concentrate

**Intended Use:**

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

**Summary & Explanation:**

Rodent Decloaker is a novel heat retrieval solution for rodent tissues that allows the end-user to block for endogenous mouse and rat IgG, block for non-specific background staining, block for endogenous peroxidase and at the same time perform antigen retrieval. Rodent Decloaker is compatible with virtually all types of primary antibodies. Rodent Decloaker can be used with Biocare's digital electric pressure cooker (Decloaking Chamber). Antibody titers are doubled and tripled when compared to citrate buffer, pH 6.0. Rodent Decloaker incorporates Assure™ technology, a color-coded high temperature pH indicator solution. The end-user is assured by visual inspection that the solution is at the correct dilution and pH. This product is specially formulated for superior pH stability at high temperatures and will help prevent the possibility of losing pH sensitive antigens. Rodent Decloaker is non-toxic, non-flammable and sodium azide and thimerosal free.

**Known Applications:**

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

**Supplied As:**

**100ml**

Rodent Decloaker, 10X concentrate (RD913L)

**500ml**

Rodent Decloaker, 10X concentrate (RD913M)

**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)
- Enzyme digestion\*
- Avidin-Biotin Blocking Kit\*(Labeled Streptavidin Kits Only)
- Peroxidase block\*
- Protein block\*
- Primary antibody\*
- Negative control reagents\*
- Detection kits\*
- Detection components\*
- Chromogens\*
- Hematoxylin\*
- Bluing reagent\*
- Mounting medium\*

\* Biocare Medical Products: Refer to a Biocare Medical catalog for further information regarding catalog number and ordering information. Certain reagents listed above are based on specific application and detection system used.

**Storage and Stability:**

Store at room temperature. 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 room temperature.

**Staining Protocol Recommendations:**

1. Deparaffinize tissues and hydrate to water. If necessary, block for endogenous peroxidase and wash in DI water.
2. Dilute concentrated Rodent Decloaker at a ratio of 1:10 (1 ml of Rodent Decloaker to 9 ml of deionized water).
3. Place slides into 1X retrieval solution in a slide container (e.g. Coplin Jar, Tissue-Tek™ staining dish, or metal slide canister).
4. Retrieve sections under pressure using Biocare's Decloaking Chamber. Follow the recommendations in the antibody data sheet and Decloaking Chamber User Manual.
5. Check solution for appropriate color change. (See Technical Note #1)
6. Gently rinse by gradually adding DI water to the solution, then remove slides and rinse with DI water.

**Technical Notes:**

1. Concentrated Rodent Decloaker is a bright yellow color. The 1X solution is a pale yellow color. When the solution reaches 95-100°C, the solutions turns yellow and indicates that the high temperature solution is at correct pH. Should the pH rise above 7.0, the solution will turn a fuschia red color. If the solution goes below pH 6.0, the solution will turn a pink color.
2. For rat and mouse brain, retrieve tissues at 80°C for 30 minutes to 2 hours in Rodent Decloaker.
3. A minimum of 80°C for 30 minutes is required for blocking endogenous mouse and rat IgG.
4. Rodent Decloaker blocks endogenous peroxidase at temperatures of 95°C and above.
5. Certain antibodies may require high temperature antigen retrieval at 110°C or above.
6. All mouse and rat tissues be fixed 12-24 hours to insure good morphology and proper staining for immunohistochemistry procedures.
7. Protocol time and temperatures for HIER can vary depending on the Decloaking Chamber model used. Please refer to the relevant Decloaking Chamber manual for appropriate protocol times and temperatures.

**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 its use.

**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 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.

**Technical Support:**

Contact Biocare's Technical Support at 1-800-542-2002 for questions regarding this product.

