

# Warp Red™ Chromogen Kit

Chromogen  
902-806A-053024

**BIOCARE**  
M E D I C A L

Available Product Formats	
Catalog Number	Volume
BRR80A6H	25 mL
BRR806AS	100 mL
BRR806AM	500 mL

## Intended Use:

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

## Background Information:

Fast Red is a well-established chromogen used in IHC staining protocols that in the presence of an alkaline phosphatase (AP) enzyme, produces a bright fuchsin-red precipitate that is insoluble in organic solvents and can be coverslipped with a permanent mounting media. Typically, Warp Red achieves staining intensity in 5-7 minutes that is equivalent to the staining previously observed with Vulcan Fast Red in 15-20 minutes. If users desire even more intense staining, Warp Red can be extended to 10 minutes.

## Known Applications:

Immunohistochemistry (Formalin-fixed paraffin-embedded tissues)

## Materials and Methods:

### Reagents Provided:

Kit Catalog No.	Component Catalog No.	Component Description	Quantity x Volume
BRR80A6H	BRR806BE	Warp Red™ Chromogen	1 x 0.7 mL
	BRR806CH	Warp Red™ Buffer	1 x 25 mL
BRR80A6S	BRR806BC	Warp Red™ Chromogen	2 x 1.0 mL
	BRR806CL	Warp Red™ Buffer	1 x 100 mL
BRR80A6M	BRR806BC	Warp Red™ Chromogen	10 x 1.0 mL
	BRR806CL	Warp Red™ Buffer	5 x 100 mL

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

## Supplied As:

### Warp Red™ Chromogen

Acidic solution with 1.0N Hydrochloric Acid. See Safety Data Sheet for additional details.

### Warp Red™ Buffer

Buffered solution, pH 8.75 – 8.95, less than 0.1% ProClin 950 preservative. See Safety Data Sheet for additional details.

## Reconstitution, Dilution and Mixing:

The Warp Red™ Chromogen Kit is optimized for use with Biocare antibodies and ancillary reagents and must be diluted just prior to use. Apply the solution within 20 minutes of preparation. Add 1 drop of Warp Red chromogen with 2.5 mL of Warp Red buffer. Mix Well.

## Storage and Stability:

Store at 2°C to 8°C. The product is stable to the expiration date printed on the vial label when stored under these conditions. Do not use after expiration date. Storage under any condition other than those specified must be verified. The stability of user diluted reagent has not been established by Biocare.

## Staining Protocol Recommendations

Below are programming and protocol recommendations to assist the user when staining manually and/or using one of Biocare's Automated Staining Platforms for research applications. The user is responsible for further optimizations of the protocol.

1. Deparaffinization: Deparaffinize slides in Slide Brite or xylene. Hydrate slides in a series of graded alcohols to water.
2. Peroxide Block (Optional): Block for 5 minutes with Peroxidized 1.
3. Pretreatment Solution/Protocol: Please refer to the respective primary antibody data sheet for recommended pretreatment solution and protocol.
4. Protein Block (Optional): Incubate for 5-10 minutes at room temperature (RT) with Background Punisher.
5. Primary Antibody: Please refer to the respective primary antibody data sheet for incubation time.
6. Probe (mouse antibodies only): Incubate for 5-15 minutes at RT with MACH 4 Mouse Probe.
7. Polymer: Incubate for 10-20 minutes for mouse antibodies or 30 minutes for rabbit antibodies at RT with MACH 4 AP Polymer.
8. Chromogen: Incubate for 5-7 minutes at RT with Biocare's Warp Red.
9. 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 for washing steps. PBS should never be used. Phosphates act as a competitive inhibitor to alkaline phosphatase enzymes.
2. Warp Red Buffer may exhibit slight cloudiness; mix thoroughly before use.
3. Warp Red is highly fluorescent and is resistant to fading. Use with a Texas Red filter.
4. Warp Red can be used with DAB for double stain procedures.
5. For increased staining intensity, the Warp Red application can be extended to 10 minutes.
6. Hydrogen peroxide block does not inhibit Warp Red staining and improves staining contrast.
7. Acetone can be used to reduce Warp Red overstaining.
8. Prolonged use of absolute alcohol or xylenes after Warp Red staining may cause fading.
9. If fading is observed, Biocare recommends air dry slides after hematoxylin and bluing. Use Biocare's Desert Chamber drying oven at 60°C for 15-30 minutes. After drying, place slides in analytical grade xylene and coverslip.
10. To clean the mixing vial, rinse with 70% alcohol and then wash in several changes of deionized water.

## 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. Warp Red Chromogen is mildly corrosive and may cause skin or eye irritation. Avoid contact with skin and eyes. If contact occurs, flush affected area with copious amounts of water. Seek medical attention if necessary.
2. Warp Red Buffer contains less than 0.05% ProClin 300 and/or less than 1% ProClin 950. Wear gloves and protective clothing and take reasonable precautions when handling as ProClin is classified as an irritant and may cause skin contact sensitization. Avoid contact with eyes, skin, and mucous membranes.
3. Handle materials of human or animal origin as potentially biohazardous and dispose of such materials with proper precautions. In the event of exposure, follow the health directives of the responsible authorities where used.<sup>1,2</sup>
4. 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 into contact with sensitive areas, wash with copious amounts of water.<sup>3</sup>



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5. Microbial contamination of reagents may result in an increase in nonspecific staining.
6. Incubation times or temperatures other than those specified may give erroneous results. The user must validate any such change.
7. Do not use reagent after the expiration date printed on the vial.
8. The reagent is optimized for use with Biocare antibodies and ancillary reagents. Refer to the primary antibody and other ancillary reagent instructions for use for recommended protocols and conditions for use.
9. Follow local and/or state authority requirements for method of disposal.
10. The SDS is available upon request and is located at <http://biocare.net>.

This Warp Red™ Chromogen Kit contains components classified as indicated in the table below in accordance with the Regulation (EC) No. 1272/2008.

Hazard	Code	Hazard Statement
	H317	May cause an allergic skin reaction
	H290 H314 H318 H335 H401	May be corrosive to metals. Causes severe burns and eye damage. Causes serious eye damage. May cause respiratory irritation. Toxic to aquatic life

#### Technical Support:

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

#### References:

1. Occupational Safety and Health Standards: Occupational exposure to hazardous chemicals in laboratories. (29 CFR Part 1910.1450). Fed. Register.
2. Directive 2000/54/EC of the European Parliament and Council of 18 September 2000 on the protection of workers from risks related to exposure to biological agents at work.
3. Clinical and Laboratory Standards Institute (CLSI). Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline-Fourth Edition CLSI document M29-A4 Wayne, PA 2014.