

# DAB Chromogen Kit

Chromogen Kit  
901-DB801-032118

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

**Catalog Number:** DB801 L

**Description:** 100 ml

## Intended Use:

For In Vitro Diagnostic Use

DAB Chromogen Kit consists of two solutions for the staining of formalin-fixed paraffin-embedded (FFPE) tissues, as part of an immunohistochemistry (IHC) procedure using a horseradish peroxidase (HRP) detection system. The clinical interpretation of any staining or its absence should be complemented by morphological studies using 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:

3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol and xylene. This product comes in a two-component system consisting of a liquid stable DAB chromogen and DAB substrate buffer. The color of the chromogen solution can vary from colorless to pale brown.

## Known Applications:

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

## Supplied As:

### 100ml Kit

1. DAB Chromogen (DB851D) 2x2.5ml
2. DAB Substrate Buffer (DS854H) 4x25ml
3. Mixing Vial (VL103) 1ea

## 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\*  
Avidin-Biotin Blocking Kit\*(Labeled streptavidin kits only)  
Peroxidase block\*  
Protein block\*  
Primary antibody\*  
Negative control reagents\*  
Detection kits\*  
Detection components\*  
Hematoxylin\*  
Bluing reagent\*  
Mounting medium\*

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

## 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. Diluted reagents should be used promptly; any remaining reagent should be stored at 2°C to 8°C.

## Protocol Recommendations:

1. After application of HRP detection, rinse tissue section in PBS or TBS Wash Buffer.
2. Mix 1 drop (32µl) of DAB Chromogen per 1.0 ml of DAB Substrate Buffer.
3. Apply DAB mixture to tissue sections. Incubate for 5-7 minutes at room temperature.
4. Rinse in deionized water.

## 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](http://www.clsi.org)). 2011

## Precautions:

1. 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.
2. Consult OSHA, federal, state or local regulations for disposal of any toxic substances.
3. Never pipette reagents by mouth and avoid contacting the skin and mucous membranes with reagents and specimens.
4. If reagents or specimens come in contact with sensitive areas, wash with copious amounts of water.
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>.

## Warnings:

1. DAB is known to be a suspected carcinogenic.
2. Do not expose DAB components to strong light or direct sunlight.
3. Wear appropriate personal protective equipment and clothing.
4. DAB may cause sensitization of skin. Avoid contact with skin and eyes.
5. Observe all federal, state and local environmental regulations.

## 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.