

Peroxide Block

For In Vitro Diagnostic Use (IVD)
Instructions for use

INTENDED USE

Cell Marque Peroxide Block is intended for use to block endogenous peroxidase enzyme activity when performing immunohistochemistry (IHC) staining protocols.

SUMMARY AND EXPLANATION

Peroxide Block is used to block the endogenous peroxide enzymes that naturally occur in tissue sections.

PRINCIPLES AND PROCEDURES

Blocking of endogenous peroxidase is a necessary step when performing immunohistochemistry and utilizing a horseradish peroxidase enzyme (HRP) label. If this step is eliminated from the protocol, endogenous peroxide enzymes may cause the chromogen to precipitate, thereby causing background staining to occur.

MATERIALS AND METHODS

Reagent Cat. No.	Contents	Vol. (ml)
925B-02	Peroxide Block	15 ml
925B-03	Peroxide Block	50 ml
925B-04	Peroxide Block	100 ml
925B-05	Peroxide Block	200 ml
925B-09	Peroxide Block	1000 ml

Materials and Reagents Needed But Not Provided

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|--|--------------------------------|
| 1. Primary and secondary antibodies | 9. Slide rack* |
| 2. TBS or PBS wash buffer* | 10. Staining dishes* |
| 3. Volumetric flask/graduated cylinder | 11. Pressure cooker* |
| 4. Microscope slides, positively charged | 12. Pretreatment reagents* |
| 5. Drying oven | 13. Proteolytic enzyme |
| 6. Positive and negative controls | 14. Avidin-Biotin block* |
| 7. Clearing agent (xylene, Clearene, etc.) | 15. Peroxidase block |
| 8. Ethanol or reagent alcohol | 16. Negative control reagents* |
| | 17. Detection kits* |
| | 18. Hematoxylin* |
| | 19. Mounting medium |

*See Cell Marque Catalog for product numbers. Some of the reagents listed are based on specific applications and detection system used.

Storage and Stability

Store at room temperature up to a maximum of 36 months from the date of manufacture (see product label for expiration date).

Reagent Preparation

This product is a ready to use reagent.

Recommended Protocol(s)

1. Cover tissue specimen completely with Peroxide Block.
2. Incubate at room temperature for 10 to 20 minutes, as needed.
3. Rinse slides in distilled water or wash buffer.
4. Apply primary antibody according to manufacturer's recommendation.

Protocol Notes

This step may also be performed after application of the primary antibody for peroxide block sensitive antigens, but before the application of the link and the label.

WARNINGS AND PRECAUTIONS

1. This product is for *in vitro* diagnostic use by professionals only.
2. This is a ready to use reagent. Do not dilute prior to use.
3. Do not use after expiration date printed on product labels. The user must validate any storage conditions other than those specified in the package insert.
4. Bring all reagents, slides, and specimens to room temperature (18-24° C) prior to use.
5. Cross contamination of reagents or samples may give false results.
6. Avoid microbial contamination of reagents, as this could produce incorrect results.
7. Avoid contact of reagents with eyes and mucous membranes. If reagents come in contact with sensitive areas, wash with copious amounts of water.
8. Do not smoke, eat, or drink in areas where specimens or reagents are handled.
9. Avoid splashing or generation of aerosols at all times.
10. Reusable glassware must be washed and thoroughly rinsed free of detergents prior to use. All glassware must be clean and dry before use.
11. Never pipette by mouth and avoid contact of reagents and specimens with skin and mucous membranes. If contact occurs, wash with a germicidal soap and copious amounts of water.
12. Do not store or use in strong light as product is light sensitive.
13. Do not freeze.

LIMITATIONS AND WARRANTY

Immunohistochemistry is a multi-step process that is dependent on the pre-analytical variables involved in specimen processing prior to IHC staining. It is the responsibility of the end user to determine optimal conditions.

There are no express or implied warranties which extend beyond this datasheet. Cell Marque is not liable for personal injury, property damage, or economic loss caused by this product.

TROUBLESHOOTING

For further help, feel free to contact Cell Marque's Technical Support at +1-800-665-7284.

REFERENCES

1. Beckstead, J Appl Immuno 1994; 2(4):274-281
2. Ho, J, et al. Appl Immuno 1994;2(4):282-286

DISCLAIMERS



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