

INSTRUCTION SHEET

Peroxide Block

Doc. No. 932-HK111, Rev. No.E
Date of Release:18-Jul-2024

REAGENT SUPPLIED

(Stable at 2-8°C)

HK111-5K : One vial (6mL) of Ready to Use 3% hydrogen peroxide

HK111-50K: One bottle (50mL)of Ready to Use 3% hydrogen peroxide (H₂O₂)

Method of Use

Peroxide block should be used prior to application of Primary antibody only when horseradish peroxidase is used as the labelling enzyme and only if it is necessary to block endogenous peroxidase activity in the tissue being stained. Endogenous peroxidase is most commonly encountered in red blood cells, kidney, and liver tissue.

Manual Procedure:

1. Add sufficient 3% H₂O₂ (1-2 drops) to cover each tissue section entirely, and incubate for 5-10 min at room temperature or 2-5 min at 37°C.
2. Rinse slides twice with your wash buffer. Slides are now ready for the next step of the protocol.

Automated Procedure

1. Addition of Peroxide Block is an optional programming step in the System Parameters Field of the automated stainer. This step is required only when using peroxidase as the labeling enzyme and only if it is necessary to block endogenous peroxidase activity.
2. Apply appropriate volume of peroxide block to cover the specimen according to tissue size or autostaining slide parameters.
3. Incubate for 5-10 minutes at room temperature, or

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for 2-5 minutes at 37°C. Rinse twice with buffer.

4. Proceed with autostainer procedure protocol.

Note

If use of a peroxide block causes an unacceptable decrease in specific staining, or is undesirable for some other reason, an alkaline phosphatase label may be used instead of a peroxidase label to visualize antibody binding in tissues with high endogenous peroxidase activity.