INSTRUCTIONS

1-Step™ NBT/BCIP plus Suppressor

34070

Number | Description
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34070 | 1-Step™ NBT/BCIP plus Suppressor, 100 ml of substrate containing 1 mM levamisole

Storage: Upon receipt store at 4°C. Product is shipped with an ice pack.

Introduction

The 1-Step™ NBT/BCIP plus Suppressor is a one-component alkaline phosphatase substrate that inhibits endogenous phosphatase activity. This substrate reacts with calf intestinal alkaline phosphatase to produce a dark purple precipitate and is ideal for immunohistochemistry and in situ hybridization applications. Two forms of alkaline phosphatase exist in mammals: one form is distributed in a variety of tissues such as the kidney, liver, placenta, bone and tumor; the other form resides in the intestine. These two forms are affected differently by inhibitors. Levamisole added to the substrate inhibits endogenous non-intestinal alkaline phosphatases but does not affect the intestinal form commonly used as a detection label.

Note: Levamisole-resistant alkaline phosphatase has been detected in four different types of tumor cells.

Procedure for Immunohistochemical Staining

1. Block nonspecific sites in the tissues with normal serum or other blocking buffer such as SuperBlock® Blocking Buffer in TBS (Product No. 37535) for 30 minutes at room temperature in a humidity chamber. Drain the blocking buffer but do not remove excess.
2. Incubate tissues with primary antibody for 30 minutes at room temperature in a humidity chamber.
3. Wash tissues in Tris-buffered saline (TBS) for 3 minutes. Repeat wash step. Remove excess wash buffer.
4. Incubate tissues with alkaline phosphatase conjugated secondary antibody for 30 minutes at room temperature in a humidity chamber.
5. Wash tissues with TBS for 3 minutes. Repeat wash step. Remove excess wash buffer.
6. Mix the 1-Step™ NBT/BCIP plus Suppressor and add it to the tissue until desired stain develops.
7. Rinse slides with water.

References


Current versions of product instructions are available at www.piercenet.com. For a faxed copy, call 800-874-3723 or contact your local distributor.