# BCIP/NBT Chromogen Kit

# User Manual

**Catalog # CRG1028**

Used for ICC/IF, IHC, ISH, WB Color Reaction.

**For research use only. Not for diagnostic or therapeutic procedures.**

## I. INTRODUCTION

BCIP/NBT for colorimetric detection of Alkaline Phosphatase activity in membrane assays. Positive reactions form an intense blue/purple precipitate at the site of the reaction. The color develops when AP catalyzes the dephosphorylation of BCIP. The intense blue/purple precipitate is very stable and resists fading when exposed to light.

## II. KIT COMPONENTS

| Component | Volume | Storage |
|---|---|---|
| Alkaline Phosphatase Buffer | 60 ml x 1 | 4 °C |
| BCIP Solution (300X) | 0.2 ml x 1 | 4 °C |
| NBT Solution (150X) | 0.4 ml x 1 | 4 °C |
| Technical Manual | 1 Manual | |

## III. STORAGE AND STABILITY

All kit components are stable at 4 °C. Each component is stable for up to 12 months.

## IV. PROCEDURE

1. Once tissue sections have been incubated with alkaline phosphatase, wash them with buffer thoroughly.
2. For every 10 ml of alkaline phosphatase buffer, add 66 µl NBT and 33 µl BCIP. Add the NBT first, mix, add the BCIP, and mix again.

Wipe the glass to remove excess of buffer and add enough drops of the BCIP/NBT solution to cover the tissue sections.

3. Incubate for 10-30 minutes at room temperature. For the best results, look under the microscope for the signal development. Once desired signal to noise ratio is achieved, stop the reaction by washing the slides in the wash buffer.

## V. CONSIDERATIONS

1. Use within 1 hour, and discard any unused solution;
2. During operation, try to avoid strong light;
3. BCIP/NBT is suspected carcinogens, operation with gloves.

## VI. TECHNICAL SUPPORT

For troubleshooting, information or assistance, please go online to www.cohesionbio.com or contact us at techsupport@cohesionbio.com

## VII. NOTES