Super Sensitive

IHC Detection System Kit

(Mouse/Rabbit)

User Manual

Catalog # CRG1003

(Version 1.4D)

Super Sensitive IHC Detection System Kit detects mouse or rabbit antibody. It can apply for paraffin-embedded tissue, cryostat sections, blood smears, and cell preparations.

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

I. INTRODUCTION

Super Sensitive IHC Detection System Kit is the latest technology in polymeric labeling. Polymer detection methods have been shown to provide increased sensitivity. This innovative polymer technology has major advantages than conventional IHC systems. Super Sensitive IHC Detection System amplifies the signal with both mouse and rabbit primary antibodies. Background noise due to nonspecific binding to endogenous biotin molecules is eliminated, because Super Sensitive IHC Detection System is not a biotin/avidin based system, which eliminates the background noise due to nonspecific binding to endogenous biotin. The Super Sensitive IHC Detection System Kit provides the user with a rapid, easy to use, and versatile IHC detection system.

II. KIT COMPONENTS

Component	Volume	Storage
Hydrogen Peroxide Blocking Reagent	5 ml x 1	4 °C, keep in dark
Blocking Reagent	5 ml x 1	4 °C
HRP Polymer	5 ml x 1	4 °C
DAB Chromogen (20X)	250 µl x 1	4 °C, keep in dark
DAB Substrate	5 ml x 1	4 °C
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Note:

DAB Working Solution: Add 50 µl DAB Chromogen (20X) into 0.95 ml DAB Substrate, mixing vial shortly.

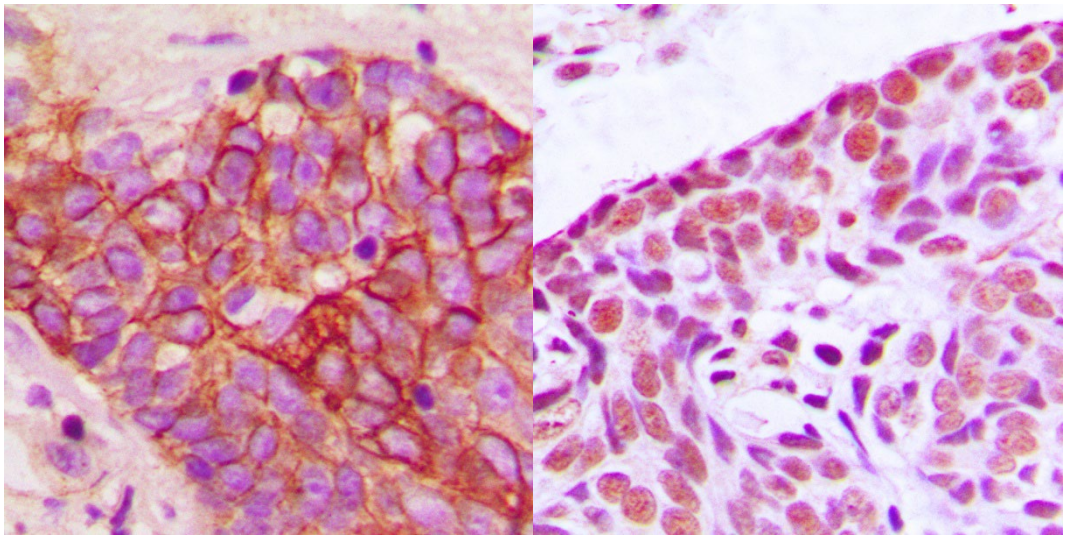
III. STORAGE AND STABILITY

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

IV. PROCEDURE

1. Deparaffinize and rehydrate tissue section; PBS/TBS wash 3 times for 2 minutes;
2. Incubate tissue in appropriate pretreatment or digestive enzyme if required for primary antibody; and PBS/TBS wash 3 times for 2 minutes;
3. Incubate slide in Hydrogen Peroxide Blocking Reagent for 10-30 minutes, PBS/TBS wash 3 times for 2 minutes;
4. Apply Blocking Reagent and incubate for 5 minutes, PBS/TBS wash 3 times for 2 minutes (May be omitted if primary antibodies are diluted in buffers containing normal goat serum);
5. Apply primary antibody and incubate according to the manufacturer's recommended protocol, PBS/TBS wash 3 times for 2 minutes;
6. Apply HRP Polymer (50 µl for each slice) and incubate for 30 minutes, PBS/TBS wash 3 times for 2 minutes;
7. Add 50 µl DAB Working Solution to each slice, incubate for about 3 - 5 minutes, PBS/TBS wash for 2 minutes;
8. Counterstain and coverslip using a permanent mounting media.

V. DATA



Immunohistochemical analysis staining in human breast carcinoma formalin fixed paraffin-embedded tissue section. The section was pre-treated using pressure cooker heat antigen retrieval with sodium citrate buffer (0.01M, pH=6) for 3 minutes. The section was detected using Super Sensitive IHC Detection System. The section was then counterstained with haematoxylin and mounted with Neutral Gum.

VI. TECHNICAL SUPPORT

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

VII. NOTES