

GBI-Permanent Red Kit for Immunohistochemistry

Organic Resistant GBI-Permanent Red Kit (Improved Formula)
 for Alkaline Phosphatase Detection

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| Storage: 2-8°C |
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Catalog No: C13-18 18mL
 C13-120 120mL

Intended Use:

GBI-Permanent Red Kit is provided in three components: 1) GBI-Permanent Red Substrate(RTU), 2) GBI-Permanent Red Activator(5x),3) GBI-Permanent Red Chromogen (100x) with easy preparation. GBI-Permanent Red Kit produces a fresh red color precipitate at the site of reaction when it reacts with alkaline phosphatase. GBI-Permanent Red is resistant to organic solvent so it allows the user to dehydrate their slides in graded alcohols and xylene for permanent mount slides.

Kit Components:

GBI-Permanent Red Kit is supplied in concentrated form (100x) and the substrate is in ready to use form. Slide tests number based on using 100µL per tissue section.

| Component No. | Content | C13-18 (180 slides) | C13-120 (1200 slides) |
|------------------|------------------------------------|------------------------|--------------------------|
| Reagent 1 | GBI-Permanent Red Substrate (RTU) | 18mL | 120mL |
| Reagent 2 | GBI-Permanent Red Activator (5x) | 3.6mL | 12mLx2 |
| Reagent 3 | GBI-Permanent Red Chromogen (100x) | 180µL | 1.2mL |

Recommended Protocol:

Slides must be washed by distilled water before applying Permanent Red if use PBS as the wash buffer. No need for additional wash if use TBS as the wash buffer.

- Prepare ready-to-use permanent red working solution:
 Add 200ul of **Reagent 2** (Activator) into 1ml of **Reagent 1** (Substrate buffer) and mix well. Add 10ul of **Reagent 3** into the mixture and mix well. Store at 4°C. Use the mixture within one hour.
[Note: For fewer slides, add 100µL of Reagent 2 (Activator) into 500µL of Reagent 1 (Substrate buffer) and mix well. Add 5µL of Reagent 3 (Chromogen) into the mixture and mix well.]
- Completely cover the tissue section with the mixture and incubate for 5-10 minutes.
- Color development may be monitored under microscope.
- After proper color development, wash with distill water 3 times for 1 minutes each.
- Proceed to counterstaining. Rinse with distilled water to clear slides ,then go through dehydration steps in #6.
- GBI-Permanent Red** is insoluble in organic solvent; however the dehydration steps must be shorter for optimal tissue structure and chromogen signal maintenance.
Note: Please wipe off extra water and air dry slides before dehydration and clear.
 - 1x 80% Ethanol 20 seconds**
 - 1x 95% Ethanol 20 seconds**
 - 3x 100% Ethanol 20 seconds each**
 - 1x 100% Xylene 20 seconds**
 - Add 1 drop of xylene based mountant (Cat. No. O-Mount, E02-18) and coverslip. Press to push the air bubble out.****CAUTION: DO NOT dehydrate in xylene longer than 20 seconds! It will erase GBI-Permanent Red stain!**
- Permanent Red can be mounted with Simpo-Mount (Cat. No. E03) after counterstain without coverslip. Simpo-Mount will form a crystal clear hard film on the slide after it is dried. Leave slides overnight to be dried completely at room temperature.

Related Products:

| Product | Catalog No. | Size |
|---|--------------------|---------------------------|
| DAB+ Kit (2-component DAB) | C09-12 / C09-100 | 12mL +240mL / 100mL + 2 L |
| DAB Kit (20x Concentrate) | C02-100 / C02-12 | 100mL / 12mL |
| Fast Red Kit (tablets and ready-to-use substrate) | C03-60 | 12 Tab + 60mL |
| AEC kit (20x concentrate) | C01-12 | 12mL |
| BCIP/NBT Kit (RTU) | C05-100 / C05-18 | 100mL / 18mL |
| GB-Mount (Aqueous) | E01-18 | 18mL |
| O-Mount (Organic) | E02-18 | 18mL |
| Simpo-Mount (Aqueous) | E03-100 / E03-18 | 100mL / 18mL |
| ISH Mount (Aqueous) for in situ hybridization | E21-100 | 100mL |
| Fluorescent Mounting Medium | E18-100 / E18-18 | 100mL / 18mL |
| Fluorescent Mounting Medium with DAPI | E19-100 / E19-18 | 100mL / 18mL |
| Fluorescent Mounting Medium with PI | E20-100 / E20-18 | 100mL / 18mL |

Precautions:

Please wear gloves and take other necessary precautions.

Remarks:

For research use only.