

# Product Information

## Peacock™ Prestained Protein Marker

**Catalog Number:** 21530-50uL, 21530-500uL

**Unit Size:** 50 uL or 500 uL

### Storage and Handling

Store at -20°C. Product is stable for at least one year from date of receipt when stored as recommended. Alternatively, the marker can be stored at room temperature for up to 2 weeks, or at 4°C for up to three months.

### Product Description

Peacock™ Prestained Protein Marker is a three-color protein ladder. It allows visual monitoring of protein separation during SDS-PAGE and protein transfer to membranes for western blotting, as well as estimation of protein molecular weight. It contains 8 visible blue bands ranging from 10 to 180 kDa, plus orange and green bands at 75 kDa and 25 kDa, respectively, for easy band identification (Figure 1).

The marker is provided in 10 mM Tris-phosphate buffer (pH 7.5 at 25°C), 2% SDS, 0.2 mM DTT, 3.6 M Urea, and 15% glycerol. Warm to room temperature and mix before use. Do not heat, dilute, or add reducing agent before loading. The recommended loading volume is 3-5 uL per well for mini-gels.

Peacock™ Prestained Protein Marker can be used with near-infrared (NIR) fluorescent western blots. NIR fluorescence will be readily detectable for the blue and green marker bands in the 700 nm detection channel, while the orange marker band will be faint or undetectable (Figure 2). Marker bands may be faintly detectable in the 800 nm detection channel at high gain/intensity settings. The amount of marker loaded on the gel may need to be adjusted to match the brightness of the antibody signal. If antibody signal is very bright for your samples, we recommend loading 3 uL of ladder to reach the appropriate brightness on NIR scanners. If your antibody signal is dimmer, we recommend loading 1.5 uL of ladder, so that the ladder signal does not overwhelm sample signal.

We also offer Peacock™ Plus Prestained Protein Marker which has a wider range of 8 kDa to 245 kDa and contains two additional molecular weight markers. In addition, see our rapid, easy-to-use, and non-toxic One-Step protein gel stains (see Related Products).

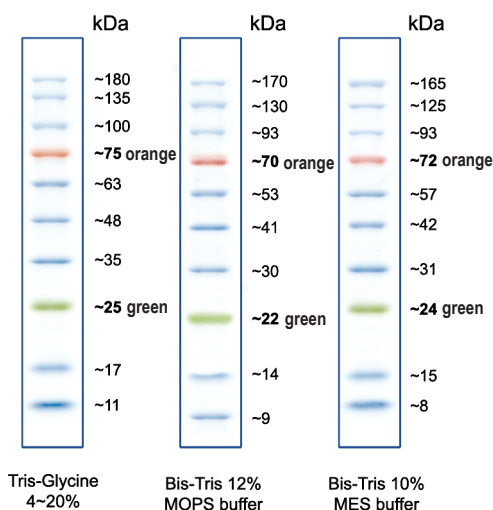


Figure 1. Apparent molecular weights of bands in Peacock™ Prestained Protein Marker on various SDS-PAGE gels.

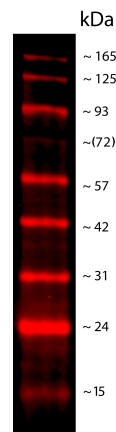


Figure 2. Peacock™ Prestained Protein Marker, 1.5 uL loaded, after transfer to a western blot membrane. Imaged on a LI-COR Odyssey® infrared imaging system in the 700 nm channel. The blue and green marker bands are detectable, but the orange 72 kDa band is faint or undetectable by NIR fluorescence.

### Related Products

| Cat. No. | Product   |
|----------|---|
| 21531    | Peacock™ Plus Prestained Protein Marker                   |
| 21003    | One-Step Blue® Protein Gel Stain                          |
| 21004    | One-Step Lumitein™ Protein Gel Stain                      |
| 21005    | One-Step Lumitein™ UV Protein Gel Stain                   |
| 22001    | Ponceau S Solution  |
| 23013    | TrueBlack® WB Blocking Buffer Kit                         |
| 22010    | 10X Fish Gelatin Blocking Agent                           |
| 22012    | Dry Milk Powder   |
| 22011    | Fish Gelatin Powder                                       |
| 22014    | Bovine Serum Albumin 30% Solution                         |
| 22002    | TWEEN® 20   |
| 20192    | CF®680R Goat Anti-Mouse IgG (H+L), Highly Cross-Adsorbed  |
| 20193    | CF®680R Goat Anti-Rabbit IgG (H+L), Highly Cross-Adsorbed |
| 20078    | CF®770 Goat Anti-Rabbit IgG (H+L), Highly Cross-Adsorbed  |
| 20077    | CF®770 Goat Anti-Mouse IgG (H+L), Highly Cross-Adsorbed   |
| 29072    | CF®680R Streptavidin Conjugate                            |
| 30071    | AccuOrange™ Protein Quantitation Kit                      |
| 33025    | VersaBlot™ Total Protein Normalization Kits               |
| 40136    | 4X Protein Loading Buffer with Orange Tracking Dye        |

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