For research purposes only, not for human use

Product Data Sheet

Prestained Protein Ladder (2.7-40 kDa)

Catalog #	Source	Reactivity	Applications
CRG1115			WB, Protein Electrophoresis

Description Prestained Protein Ladder 2.7 to 40 kDa

Specificity Prestained Protein Ladder is a mixture of 6 blue-, green-, and orange-stained proteins (2.7 to 40 kDa) for use as size standards in protein electrophoresis (SDS-PAGE) and western blotting. The protein ladder is supplied in a ready-to-use format for direct loading onto gels; no need to heat, reduce, or add sample buffer prior to use.

Form Liquid in 67 mM Tris-H3PO4, 5mM EDTA, 2 % SDS, 33 % Glycerol, 0.02 % proclin300, pH7.5

Directions for Use

1. Thaw the ladder at room temperature for a few minutes to dissolve precipitated solids. Do not boil!
2. Mix gently, but thoroughly, to ensure the solution is homogeneous.
3. Load the following volumes of the ladder on an SDS-polyacrylamide gel:

- 5 µL per well for mini gel,
- 10 µL per well for large gel.

Use the same volumes for Western blotting.

The loading volumes listed above are recommended for gels with a thickness of 0.75-1.0 mm. The loading volume should be doubled for 1.5 mm thick gels.

Notes:

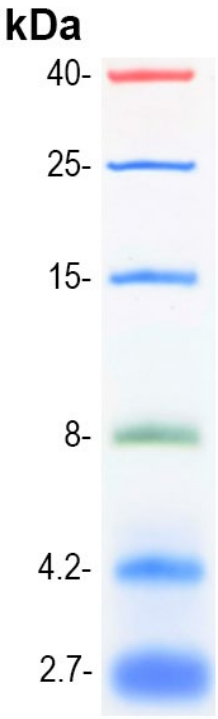
1. Prestained proteins can have different mobilities in various SDS-PAGE-buffer systems. However, they are suitable for approximate molecular weight determination when calibrated against unstained standards in the same system. See the table provided for migration patterns in different electrophoresis conditions. In low-percentage gels (< 10 %), the low-molecular weight proteins in the ladder may migrate with the dye front.

2. Prestained Protein Ladder can be used in Western blotting with all common membranes: PVDF, nylon and nitrocellulose.

3. Longer transfer times or higher transfer voltages may be required for Western blotting of large (>100 kDa) proteins.

Storage/Stability Shipped at 4°C. Store at -20°C for one year.

Image



18% Tricine Blot