

For Research Use Only

Prestained Protein Marker

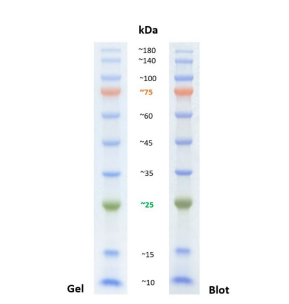
Catalog Number: PL00001



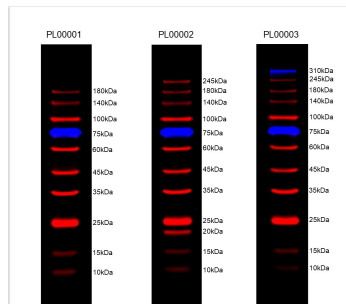
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Product Information	The PL00001 Prestained Protein marker is a ready to use three-color protein standard with 10 prestained proteins covering a wide range of molecular weights from 10 to 180 kDa. The PL00001 Prestained Protein Marker is designed for monitoring protein separation during SDS-polyacrylamide gel electrophoresis, verification of Western transfer efficiency on membranes, (PVDF, nylon, or nitrocellulose) and for estimating the size of proteins. The PL00001 Prestained Protein marker is also suitable for fluorescence WB detection.
Product Information	Approximately 0.1~0.4 mg/ml of each protein in the buffer (20 mM Tris-phosphate (pH 7.5 at 25°C), 2 % SDS, 0.2 mM Dithiothreitol, 3.6 M Urea, and 15 % (v/v) Glycerol).
Package	100uL / 500uL
Storage	Store product at 4°C for up to 12 weeks. For longer storage, aliquot and store at -20°C for up to 1 year.
Molecular Weight	~ 10, 15, 25, 35, 45, 60, 75, 100, 140, 180 kDa
Number of Markers	10
Size Range	10 to 180
Stain Type	3 colors: Blue, Red, Green
Detection Method	Colorimetric

Validation Data



SDS-PAGE band profile of Prestained Protein Ladder: Resolution of the prestained protein ladder in a 10-20% Tris-glycine gel (SDS-PAGE). The image shows the migration pattern in the gel and after transfer to a PVDF membrane.



Protein ladder tested with the Bio-Rad: 2 ul protein ladders were loaded in the 8%-18% gel, then electrophoresed and transferred into the PVDF membrane. After blocking, this dual-channel image was taken directly by the Bio-Rad ChemiDoc MP Imaging System in the 550 nm (for 75k Da and 310 kDa) and 680 nm (except 75k Da and 310 kDa)... range.

Gel Type	Gel Concentration	Tris-Glycine				Tris-Acetate		Bio-Tris	
		4-20%	10-20%	8%	12%	3-8%	4-12%	10%	12%
Running Buffer		Tris-Glycine				Tris-Acetate		MES	
% Length of Gel	10	100	100	100	100	100	100	100	100
	20	100	100	100	100	100	100	100	100
	30	100	100	100	100	100	100	100	100
	40	100	100	100	100	100	100	100	100
	50	100	100	100	100	100	100	100	100
	60	100	100	100	100	100	100	100	100
	70	100	100	100	100	100	100	100	100
	80	100	100	100	100	100	100	100	100
	90	100	100	100	100	100	100	100	100
	100	100	100	100	100	100	100	100	100

Migration patterns of Prestained Protein Ladder in different electrophoretic conditions: Note on apparent molecular weights: Depending upon the gel type used, the coupling of a charged dye molecule to a protein marker alters the overall charge of the protein and thus its mobility in a gel. This results in differences in observed molecular... weight of the protein markers between different gel types as shown in Figure 2.

For technical support and original validation data for this product please contact

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