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预染彩虹蛋白 Marker 10-180KD (26616/SM0671)

Store at -20°C

Introduction:

The Thermo Scientific™ PageRuler™ Prestained Protein Ladder is a prestained mixture of ten recombinant proteins ranging from 10 kDa to 180 kDa. Three different chromophores are bound to the proteins, producing a brightly colored ladder. The protein ladder is conveniently packaged and ready to use with no heating, diluting or additional reducing agent necessary. Lot-to-lot variation of the apparent molecular weight of prestained proteins is ~5 %.

Storage Buffer: 62.5 mM Tris•H₃PO₄ (pH 7.5 at 25 °C), 1 mM EDTA, 2 % (w/v) SDS, 10 mM DTT, 1 mM NaN₃, 33 % (v/v) glycerol.

Important Product Information:

1. Do not boil the protein ladder.
2. The protein ladder can be stored at 4 °C for up to 3 months.
3. For precise protein MW determination use the PageRuler Broad Range Unstained Protein Ladder.

Migration Patterns of PageRuler Prestained Protein Ladder:

Gel type		Tris-Glycine							Tris-Acetate*		Bis-Tris*						
Gel concentration		4-20%	8-16%	10-20%	8%	10%	12%	15%	3-8%	7%	4-12%		10%		12%		
Running buffer		Tris-Glycine							Tris-Acetate		MOPS	MES	MOPS	MES	MOPS	MES	
Apparent Molecular Weights, kDa																	
% length of gel	10							180	130	100							
	20	180	130	180	100	130	100	70	70	150	140	140	140	115	140	115	140
	30	130	100	100	70	100	100	55	55	120	115	115	115	80	80	80	70
	40	100	70	70	55	100	70	40	40	80	80	80	70	65	65	65	50
	50	70	70	100	55	70	55	35	35	120	85	65	50	50	40	50	30
	60	55	40	55	40	55	40	25	25	85	65	50	40	40	30	40	25
	70	35	40	25	55	35	35	25	25	65	50	40	40	30	30	25	15
	80	25	35		40	25	15		15	65	50	30	25	30	25		
	90	15	25	15	35		15			50	40	25	15	25	15		
	100	10	15	10	25	15	10	10	10	30	30	15	15	15	10	15	10

Recommendations for Loading:

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 uL per well for mini gel,
 - 10 uL per well for large gel.

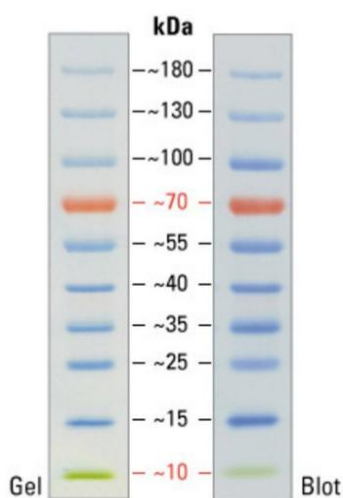
Use the same volumes for Western blotting.

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.

Important 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.
2. In low-percentage gels (< 10 %), the low-molecular weight proteins in the ladder may migrate with the dye front.
3. PageRuler Prestained Protein Ladder can be used in Western blotting with all common membranes: PVDF, nylon and nitrocellulose.
4. Longer transfer times or higher transfer voltages may be required for Western blotting of large (>100 kDa) proteins.

PageRuler Prestained Protein Ladder:



4-20% Tris-glycine SDS-PAGE