

ColorMixed Protein Marker 310 (10–310 kDa)

Cat. No.: RM02943

Size: 100 μ L / 250 μ L / 2×250 μ L / 10×250 μ L

◆ Description

This product is a ready-to-use three-color protein marker with a molecular weight range of 10–310 kDa. The concentration of each protein component is approximately 0.1–0.4 mg/mL. When separated by SDS-PAGE using a Tris-glycine buffer system, three bands serve as reference markers: the 25 kDa band appears green, while the 75 kDa and 310 kDa bands appear red; all other bands are blue. This product can be used to monitor protein separation during SDS-PAGE electrophoresis, estimate the approximate molecular weight of target proteins, and verify transfer efficiency in Western blotting.

◆ Contents

Approximately 0.1–0.4 mg/mL of each protein in the Duffer (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).

◆ Storage

Store at 4°C for 3 months; store at –20°C for 3 years.

◆ Notice

1. Ready-to-use: Can be loaded directly without heating or dilution.
2. Three reference bands: 310 kDa (red), 75 kDa (red), 25 kDa (green).
3. Recommended loading volume: 3–10 μ L per well. The volume should be adjusted appropriately according to the gel concentration and well size. For instance, it is recommended to increase the loading volume by at least 2 μ L for low-concentration gels.
4. Applicable membrane types: PVDF membrane, nylon membrane, NC membrane.
5. Transfer efficiency is related to the transfer duration and should be determined based on the molecular weight of the target band. It is normal that some high-molecular-weight bands cannot be completely transferred after blotting.

◆ Guide for molecular weight estimation

The molecular weight of this rainbow protein marker may shift in different electrophoresis buffers. For details, please refer to the table below:

条带	颜色	TRIS-GLYCINE/ kDa	BIS-TRIS(MOPS)/ kDa	BIS-TRIS(MES)/ kDa	<div> kDa  </div>
1	红色	310	290	290	
2	蓝色	245	235	235	
3	蓝色	180	170	170	
4	蓝色	140	130	130	
5	蓝色	100	93	93	
6	红色	75	70	72	
7	蓝色	60	53	53	
8	蓝色	45	41	42	
9	蓝色	35	30	30	
10	绿色	25	22	23	
11	蓝色	15	14	14	
12	蓝色	10	9	10	