ColorBand Prestained Protein Marker High Range 25 kDa-300 kDa

Cat#:8011071/8011072

[Product Name]
ColorBand Prestained Protein Marker Broad Range 25 kDa -300 kDa

[Model & Size]

Product Name	Cat No.	Size
ColorBand Prestained Protein Marker High Range 25 kDa-300 kDa	8011071	250 μL
	8011072	250 μL×5

[Product Description]
The product is a ready-to-use and prestained protein molecular weight standard solution in three colors, of which contains 9 highly purified and pre-stained recombinant proteins ranging from 25 kD to 300 kD (25 kDa, 45 kDa, 72 kDa, 100 kDa, 130 kDa, 160 kDa, 200 kDa, 250 kDa,300 kDa). After SDS-PAGE or Western blot, 9 clear colored protein bands can be observed, of which the 72 kDa band is orange-red, 25 kDa is green, and the rest is blue. The apparent molecular weight of the product is calibrated with Biorad 1610363, Thermo 26610 and 26614 non-pre-stained protein molecular weight standard. And the product is suitable as a protein molecular weight standard for SDS-PAGE and Western.
The product has been prepared in 1×SDS-PAGE loading buffer and can be used directly. Please do not heat, dilute or add reducing agent.
The dosage of the product should be adjusted according to the size of the sample loading hole. When loading marker, it is only need to use 5~10 μL marker (5 μL for a 5×1.5mm gel hole is enough), and the clear protein bands can be observed after SDS-PAGE and Western blot.

[Storage Buffer]
62.5 mM Tris-H_3PO_4, pH 7.5, 2 mM EDTA, 2% (W/V) SDS, 33% (W/V) Glycerol, 0.02% (V/V) proclin300, 5 mM DTT.

[Storage And Transportation]
Store at -25℃~-15℃. Valid for 24 months. Avoid repeated freezing and thawing.
Transported on blue ice.

[Instruction]
1. Thaw at room temperature. After the solution is completely dissolved, mix it gently and thoroughly. Do not heat.
2. It is only need to load 5 μL marker during SDS-PAGE. It is recommended that when some laboratories load marker for the first time, they can determine the appropriate sample size through pre-experiments based on their own experimental conditions and experimental habits, so as to save costs and obtain better experimental images.
3. Unused markers are stored at -25℃~-15℃. They can also be repacked to avoid repeated freezing and thawing according to daily usage, and stored at 2℃~8℃ for 2 months.

[Precaution]
1. If it is a gel of low concentration, the low molecular weight proteins in the product might migrate faster than the dye.
2. It was necessary to extend the transfer time or increase the voltage if the sample is large molecular weight protein during Western blot. In addition, it is recommended not to add SDS to the

transfer solution. If it must be used in the experiment, it was recommended that the concentration of SDS should not exceed 0.02%~0.04%.

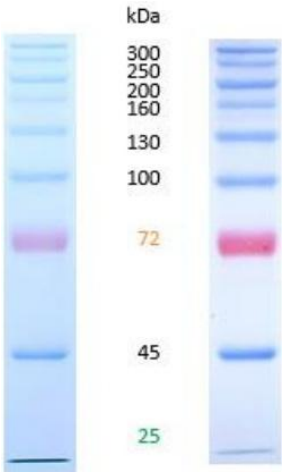
3. There are different apparent molecular weights of pre-stained proteins in different buffer systems. If non-pre-stained proteins are calibrated in advance in the buffer system, the protein molecular weight could be roughly determined.

4. This product is suitable for common membranes such as PVDF, nylon and cellulose acetate membranes.

5. The transfer effect is related to the transfer time and needs to be determined according to the size of the target band. If the transfer time is short, some of the large molecular weight bands may not be successfully transferred, which is a normal phenomenon.

6. The product contains a small amount of DTT. For your safety and health, please wear a lab coat and disposable gloves.

[Product Legend]



[Molecular Weight Guide]

When using different protein gel types, concentration and electrophoresis buffer, the colored protein marker shows different mobilities and slightly different molecular weights, as shown in the table below.

Gel type	Tris-Glycine			Tris-Acetate		Bis-Tris	
Gel concentration	6%	7%	B4-20%	6%	T3-8%	T4-12%	T4-12%
Running buffer	Tris-Glycine			Tris-Acetate		MES	MOPS
	Apparent Molecular Weights, kDa						
% length of gel 10	300 250 200 160 130 100 72 45 25	300 250 200 160 130 100 72 45 25	300 250 200 160 130 100 70 45 25	300 250 200 160 130 100 65 45 25	300 250 200 160 130 100 65 45 25	300 250 200 160 130 100 65 45 25	300 250 200 160 130 100 65 45 25
20							
30							
40							
50							
60							
70							
80							
90							
100							

[Description Of Product Symbol]

Product Symbol	Description	Product Symbol	Description
	Catalog Number		Batch Code
	Date of Manufacture		Manufacturer
	Keep away from light		Temperature limit
	Consult instructions for use		Use-by date

[Instruction Revision Date]
April 23, 2024

[Company Information]
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