ColorBand Prestained Protein Marker Broad Range 8 kDa -250 kDa

Cat#:8011061/8011062

[Product Name]
ColorBand Prestained Protein Marker Broad Range 8 kDa -250 kDa

[Model & Size]

Product Name	Cat No.	Size
ColorBand Prestained Protein Marker Broad Range 8 kDa -250 kDa	8011061	250 μL
	8011062	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 11 highly purified and pre-stained recombinant proteins ranging from 8 kDa to 250 kDa (8 kDa, 17 kDa, 25 kDa, 33 kDa, 43 kDa, 55 kDa , 72 kDa, 100 kDa, 130 kDa, 180 kDa, 250 kDa). After SDS-PAGE or Western Blot, 11 clear colored protein bands can be observed, of which the 72 kDa band is orange-red, 8 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, 5 mM EDTA, 1% (W/V) SDS, 33% (W/V) Glycerol, 0.02% (V/V) proclin300,1 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%.

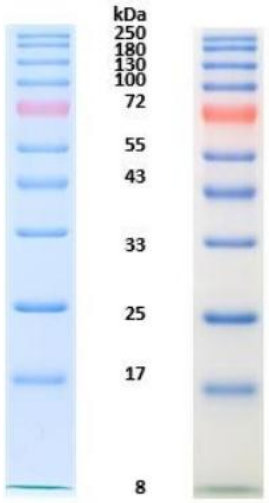
3. There are different apparent molecular weights of pre-stained proteins in different buffer systems. If non-pre-stained proteins are calibrated in advance in the buffer system, the protein molecular weight could be roughly determined.

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]



Gel 12.5%Tris-Glycine Blot

[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						Bis-Tris							Tris-Acetate		Hepes-Tris
Gel concentration	8%	10%	12.5%	15%	B4-20%	W4-20%	G4-12%	G8-16%	G4-20%	G4-12%	G8-16%	G4-20%	G10%	6%	T3-8%	W4-20%
Running buffer	Tris-Glycine						MES			MOPS				Tris-Acetate		Hepes
	Apparent Molecular Weights, kDa															
% length of gel 10	250	250 180	250 180	250 180	250	250	250 180	250 180	250 180	250	250	250	250	250	250	235
20	180	130	130	130	180	180	130	130	130	180	180	180	180	180	180	170
30	130	100	100	100	130	130	95	95	95	130	130	130	130	130	130	125
40	100	72	75	80	100	100	65	65	65	95	95	95	95	100	250	95
50	70	55	55	55	70	70	55	55	55	65	65	65	65	65	180	65
60	55	43	43	43	55	55	43	43	43	55	55	55	55	55	130	55
70	43	33	33	33	43	43	33	33	33	43	43	43	43	43	100	43
80	33	25	25	25	33	33	25	25	25	33	33	33	33	33	65	33
90		17	17	17	25	25	17	17	17	25	25	25	25	25	55	25
100		8	8	8	17	17	8	8	8	17	17	17	17	17	43	17
					8	8				8	8	8	8	8	33	8

[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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