EXREsolve™ Prestained Protein Markers 15-130 kDa

Catalog Number: EXBR015

For Research Use Only. Not Intended for Diagnostic or Therapeutic Use.

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Product Description

The EXREsolve™ Prestained Protein Markers product is composed of 9 purified pre-stained proteins with a molecular weight range of 15 kDa to 130 kDa. The individual protein markers are 15 kDa, 20 kDa, 25 kDa, 33 kDa, 43 kDa, 55 kDa, 70 kDa, 95 kDa and 130 kDa. The 25 kDa marker is green, the 70 kDa marker is orange, and the other 7 markers are blue. This product is suitable as a protein molecular weight standard for SDS-PAGE or Western blot and is compatible with PVDF, nylon, and nitrocellulose membranes. The prestained markers enable direct observation of the protein electrophoresis status and estimation of protein transfer during Western Blot.

The product is a ready-to-use liquid that does not require heating, dilution or additional reducing agents before loading sample. The concentration of each protein band in the product is approximately 0.1-0.4 mg/mL.

Available sizes: 1 Pack (250 uL) or 5 Pack (5 x 250 uL)

For the separation of 10-250 kDa proteins, we recommend EXREsolve™ FlexKD PAGE Gel (catalog # EXBR001).

Limitations

- For Research Use Only. Not Intended for Diagnostic or Therapeutic Use.

Precautions

- Always wear appropriate protective clothing and follow safe laboratory procedures.

Storage

- Upon receipt, immediately store in -20°C.
- Store at -20˚C for up to 12 months**. Avoid repeated freeze-thaw cycles.**
- **Storage Buffer:** Contains Tris, SDS, DTT, glycerol.

Protocol

1. Thaw at room temperature for a few minutes prior to use. **Do not boil.**
2. Load the following recommended volumes on an SDS-polyacrylamide gel:

- 5 uL per well for mini gel (0.75-1.0 mm thickness)
- 2-3 uL per well for Western blot.
- Volumes may need to be increased for low-percentage gels (<8%), large gels, or gel thickness ≥ 1.5 mm.

Note:

- Transfer times of high molecular weight proteins (>100 kDa) during Western blotting may need to be increased.
- The low molecular weight protein markers may migrate with the dye front in low-percentage gels (<8%).
- The mobility of the prestained protein markers may be affected by various buffers and gel concentrations (See Figure 2). To achieve suitable approximation of molecular weight determination, it is recommended to calibrate against unstained standards using the same conditions.

Product Images

Figure 1. EXREsolve™ Prestained Protein Markers 15-130 kDa Typical Data

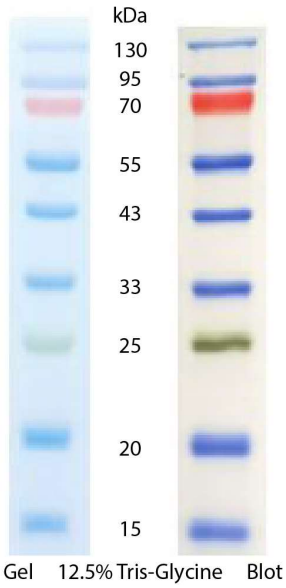

Figure 2. Example of EXREsolve™ Prestained Protein Markers 15-130 kDa Mobility in Various Conditions

Band	Color	TRIS-GLYCINE	BIS-TRIS (MOPS)
1	Blue	130	140
2	Blue	95	95
3	Orange	70	65
4	Blue	55	52
5	Blue	43	41
6	Blue	33	33
7	Green	25	25
8	Blue	20	17
9	Blue	15	10