ExactPro Western Marker

Cat. No.: BIO-5155-25ul
BIO-5155-250ul

Applications: Used in SDS-PAGE and Western blots for approximation of protein sizes, and to locate a protein of interest for excision from an unstained preparative gel. Visualisation of 10 IgG-binding proteins on Western blots.

Quality Control: ExactPro Western Marker provides 4 prestained bands on SDS-PAGE (Tris-Glycine buffer) and after electro transfer onto nitrocellulose membrane. It also provides 10 bands through chemiluminescent detection, after binding of primary and secondary antibodies.

Storage Condition: 4°C – 3 months
-20°C – 24 months

1.0 DESCRIPTION

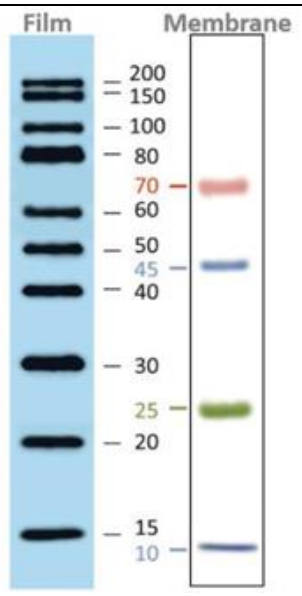
ExactPro Western Marker is a ready-to-use mixture containing 10 IgG-binding proteins with molecular weights ranging from 15 kDa to 200 kDa in Tris-Glycine Buffer. ExactPro Western Marker has 2 enhanced, reference bands (at 30 kDa and 80 kDa).

ExactPro Western Marker serves 2 major functions:

1. 4 prestained proteins to monitor protein separation when separated on SDS-PAGE (Tris-Glycine), estimating protein size, and monitoring the efficiency of Western transfer on membranes such as nitrocellulose, PVDF, or nylon.
2. Immuno-detection of 10 IgG-binding protein on film or CCD imaging.

Migration Pattern and Approximate MWs (kDa)

Band	Color	Tris-Glycine	Bis-Tris (MOPS)	Bis-Tris (MES)
1	**Pink**	**70**	**61**	**62**
2	Blue	45	41	42
3	**Green**	**25**	**22**	**23**
4	Blue	10	9	10



ExactPro Western Marker is compatible with chemiluminescent, fluorescent, chromogenic, and other detection systems.

The ladder is ready-to-use. No further dilution, addition of a reducing agent or heating is required.

2.0 PROTOCOL

- Thaw ladder at room temperature to dissolve precipitated solids.
  Do not boil.
- Mix solution gently to ensure that it is homogeneous.
- Load ladder into SDS-PAGE gel or Western blot using these volumes (based on gel thickness of 0.75 – 1.0mm).
  - 1.5 – 2.5 µl per well for 2-step Western blot utilising primary antibody followed by secondary antibody conjugated with reporter enzymes
  - 2.5 – 5 µl per well for 1-step Western blot utilising primary antibody conjugated with reporter enzymes.

- Double the loading volume for thicker or larger gel.