

WB Membrane Luminous Pen

Cat. #: [W2502-1k](#) (1,000 membranes drawing); [W2502-5k](#) (5,000 membranes drawing)

Storage: Ship and store at 4°C. Do not freeze.

Shelf Life: 6 months. The drawing signal strength will gradually decrease 6 months after the first usage.

Product Description (This product is for research use only.)

This WB Membrane Luminous Pen is designed to mark the molecular weight ladder bands on the PVDF or nitrocellulose membrane, which will finally give you visible molecular weight ladder bands on X-ray film. You no longer need to align the WB result with original membrane blot. This simplify the procedure of marking the molecular weight standard and improve accuracy.

After transferring proteins from gels to PVDF / nitrocellulose membranes, mark the molecular weight ladder bands (pre-stained or Ponceau S stained) with this Pen and then do regular hybridization procedures. After Chemiluminescent development step, the marked bands of the molecular weight ladder can be visualized. This WB Membrane Luminous Pen can be also used for any personal noting, marking on the WB membrane, or as positive control for WB.

Important Notes

1. This Pen is suitable for HRP substrate system.
2. After using, store this Pen horizontally in 4°C, do not freeze.
3. Before each use of this Pen, scribble / draw on other paper to make sure it has strong signal later on membrane. Then mark the WB membrane.
4. When marking the membrane, be gentle to avoid destroying the membrane. Do not use strong force.
5. The signal strength may gradually decrease as you use the Pen.

Protocol

1. When running electrophoresis, run pre-stained or unstained molecular weight ladder in parallel with your samples.
2. After electrophoresis and membrane blotting (transferring):
 - 2.1. If use **pre-stained ladder**, wash the transferred PVDF or nitrocellulose membranes with ddH₂O. Gently remove the residual solution from the membrane using filter paper. Do not over dry - keep the membranes wet.
 - 2.2. If use **unstained ladder**, stained the membrane with Ponceau S. Use pencil to marker the bands of ladder. Wash the membrane with PBST till all Ponceau S is removed. Gently remove the residual solution from the membrane using filter paper. Do not over dry - keep the membranes wet.

3. **Gently draw / mark** the protein ladder bands and other necessary bands evenly with the **WB Membrane Luminous Pen**. Do not use strong force and avoid destroying the membrane. Usually one drawing should give enough signal strength. If necessary, mark the same band for multiple times for stronger signal. This WB Membrane Luminous Pen can be also used for any personal noting, marking on the WB membrane, or as positive control for WB.
4. **Wait 15 seconds**, and then put the membrane in the blocking buffer.
5. Proceed to the rest procedures for western blotting.

Troubleshooting

| Problem | Solution |
|--|---|
| The marked signal is too strong | Use less exposure time, and try multiple exposure time on different films. |
| No marked signal or marked signal too weak | <ol style="list-style-type: none"> 1. The Pen may be expired. Try a new one. 2. Draw multiple times on the same band. |

Customer also buy

| Cat.# | Kit Name | Application | Protein Status | Minute |
|-------|--|---|-------------------------|-----------------|
| P501 | Total protein kit | cells → Total protein | Denatured / Native | 1 ~ 8 |
| P502 | Total protein kit | tissues → Total protein | Denatured / Native | 1 ~ 8 |
| P503 | Membrane protein kit | cells / tissues → Membrane Pr. | Native & Detergent-free | 20 ~ 45 |
| P504 | Nuclear protein kit | cells / tissues → Nuclear & cytosol | Native | 6 ~ 8 |
| P505 | Detergent-free kit | cells → Total protein | Denatured / Native | 5 ~ 8 |
| P506 | Detergent-free kit | Tissues → Total protein | Denatured / Native | 5 ~ 8 |
| P507 | Mitochondria kit | cells / tissues → Mitochondria | Native & Detergent-free | 25 ~ 30 |
| P508 | Plant total protein | plant tissues → Total protein | Denatured/Native | 5 ~ 8 |
| P510 | Plant detergent-free | plant tissues → Total protein | Native | 6 ~ 8 |
| P511 | Plant chloroplast kit | plant tissues → Intact chloroplast | | 5 |
| P512 | Bacteria total protein | bacteria → Total protein | Denatured | 2 ~ 3 |
| P513 | Nuclear envelope kit | Cells → Nuclear envelope | Native | < 45 |
| P514 | Histone/DNA binding protein extraction kit | Cells → Histone & DNA binding protein | Denatured | < 10 |
| P515 | Thick cell wall microbes protein kit | Microbes → Total protein | Denatured / Native | < 10 |
| P519 | Gel slice recovery kit | PAGE gel → Protein | Denatured / Native | 10 ~ 20 |
| P521 | Hair & nail protein kit | Hair, nail → Protein | Denatured | 5 min. hands on |
| P522 | Adipose protein kit | Adipose / adipocyte → Total Protein | Denatured / Native | 20 |