

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