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18186E_1908_1

Product No. 18186

TMB Solution for Western Blotting

TMB Solution for Western Blotting is a horseradish peroxidase (HRP) detection reagent for western blotting or immunoblotting.

Features

- High detection sensitivity similar to general chemiluminescence substrate without any equipment.
- Produce visible dark blue bands (or dots).
- Ready-to-use
- No carcinogen such as 3, 3'-Diaminobenzidine or o-Dianisidine is used.

Composition

TMB, Hydrogen Peroxide, Precipitate agent, Stabilizer

Protocol

1. After the blotting with HRP-conjugated antibody, wash the membrane thoroughly with TBS-T.
2. Place the membrane in a plastic tray with the protein side up and add TMB solution to cover the membrane completely. (Required volume is 0.1 mL per cm^2 of membrane.)
3. Incubate for 5 - 15 minutes without shaking[*1].
4. When the expected band appears on the membrane, take the membrane out of the solution, and wash it with distilled water[*2] several times to stop reaction.

   [*1] Shaking may decrease the sensitivity.
   [*2] Be sure to use distilled water for washing. Washing with other solution, e.g.,TBS-T, decrease the sensitivity.

Caution

- To store the membrane, put the dried membrane in a plastic bag and protect from light. Although the membrane is stored correctly, the band will fade gradually. It is recommended to scan the image within one week.
- In case of high background, the concentration of antibodies may be too high, or the washing step may be insufficient. Optimize the concentration of antibodies, or increase the number washing step.
- In case of low signal, optimize the concentration of antibodies or the amount of loading protein.
- This product is only for immunoblotting, and not for immunohistochemistry or ELISA.

Storage

Refrigerator

Expiration

Expiration date is stated on the product label.

Packing

200 mL (Product No.18186-24)

Manufactured by **NACALAI TESQUE, INC.**
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