

WB Stripping Solution

For Subsequent Detections after Western Blotting

WB Stripping Solution removes conjugated antibodies from blots, enabling subsequent detections with different antigens on the very same blotting membrane. After the first antigen-antibody reaction and following chemiluminescent visualization, the antibody can be removed by the WB Stripping Solution. A second antigen-antibody reaction can be conducted on the same blotting membrane. The same blotting membrane can be probed 2-5 times if chemiluminescent detection is employed. Alternately, one blot can be used multiple times under different conditions to optimise results of antigen-antibody reactions!

Features

- No heating:** reaction at room temperature
- No odor:** does not contain 2-mercaptoethanol
- Fast:** stripping time 5-15 minutes
- Ready to use:** one solution in one bottle

Application

1. First antigen-antibody reaction



Blocking : Blocking One (30 min) (Code No.:03953-95)
Wash : t-Tris Buffered Saline
Primary ab : anti-paxillin (mouse IgG)
Secondary ab : anti-mouse IgG-POD
Detection : Chemiluminescence Detection Kit
(commercially available product)

2. Stripping

Condition : RT, 15 min for conventional protocol

3. Second, different antigen-antibody reaction



Blocking : Blocking One (30 min) (Code No.:03953-95)
Wash : t-Tris Buffered Saline
Primary ab : anti-vinculine (mouse IgG) / anti-actin (mouse IgG)
Secondary ab : anti-mouse IgG-POD
Detection : Chemi-Lumi One (Code No.:05027-20)

*Data by Department of Bioscience and Biotechnology,
Tokyo Institute of Technology.*

Protocol

For blotting membrane (mini gel size), use 20 ml of the product.

1. Wash chemiluminescent stain treated blotting membrane with t-PBS or t-TBS with 0.05% (v/v) Tween[®] 20 for 5 minutes.
2. Pour enough WB stripping solution into the tray to cover the blotting membrane fully. Shake gently for 5-15 minutes.

(Protocol)

3. Dispose stripping solution and wash the membrane with t-PBS or t-TBS for 5 minutes.
4. Washed blotting membrane can be used for a second antigen-antibody reaction.

Proof of antibody removal

If antibody remains on the membrane, it can be detected after the new antigen-antibody reaction causing false result.

- Check whether any labeled antibody complex remains after the stripping by repeated chemiluminescence detection.
- Check whether any non-labeled (primary) antibody remains by chemiluminescence detection upon repeated reaction with the secondary antibody.

Caution

- Depending on the strength of the antigen-antibody reaction, the antibody complex may remain on the membrane after 5-15 minutes stripping treatment at room temperature. It is recommended to optimize the conditions beforehand. If antibodies remain, it is recommended to extend the stripping time (30 minutes to several hours) and/or raise temperature (37 to 60 °C). Perform blocking again if necessary.
- The product is an acidic solution (pH 2-3). Wear protective chemical-resistant clothes, gloves, and safety eye-wears. If the product accidentally comes into contact with skin, thoroughly wash the skin with water. Contact a physician if necessary.
- Use the product after it has been equilibrated at room temperature.
- This product is not suitable for use for blotting membrane stained with TMB, DAB, 4-chloronaphtol or other visually detectable staining, because these stains will not disappear from the membrane.
- After use, the product shall be neutralized and discarded.
- If the product is mixed with WB Stripping Solution Strong (Code No.:05677-65), a white precipitation will occur. When both products are used in turns, the blotting membrane must be washed thoroughly with a proper buffer or deionized water for 3-5 times. Use separate trays for different reagents.

Expiration

One year from manufacturing. Expiration date is stated on the product label (Exp. yy / mm)

Ordering information

| Product name | Grade | Storage | Code No. | PKG Size |
|------------------------------|-------|---------|----------|----------|
| WB Stripping Solution | SP | RT | 05364-55 | 500 ml |
| WB Stripping Solution Strong | SP | R | 05677-65 | 500 ml |

Western Blotting Solution Strong

Protocol

For blotting membrane (mini gel size), use 20 ml of the product. All equipments (tray, tweezers etc) coming into contact with this product should be made of plastic.

1. Wash chemiluminescent stain treated blotting membrane with deionized water for 1 minutes.
2. Pour enough WB stripping solution into the tray to cover the blotting membrane fully. Shake gently for 5-15 minutes.
3. Dispose stripping solution and wash the membrane with t-PBS or t-TBS with 0.05%(v/v) Tween®20 for 5 minutes.
4. Washed blotting membrane can be used for a second antigen-antibody reaction.

Proof of antibody removal

If antibody remains on the membrane, it can be detected after the new antigen-antibody reaction causing false result.

- Check whether any labeled antibody complex remains after the stripping by repeated chemiluminescence detection.
- Check whether any non-labeled (primary) antibody remains by chemiluminescence detection upon repeated reaction with the secondary antibody.

Caution

-All equipments (tray, tweezers etc) coming into contact with this product should be made of plastic. Contact with metal equipment compromise the performance of the product.

-Depending on the strength of the antigen-antibody reaction, the antibody complex may remain on the membrane after 5-15 minutes stripping treatment at room temperature. It is recommended to optimize the conditions beforehand. If antigens remain, it is recommended to extend the stripping time (30 minutes to several hours) and/or raise temperature (37 to 60 °C). Perform blocking again if necessary.

-The product has reductive property. Wear protecting chemical-resistant clothes, gloves, and safety eye-wears. If the product accidentally comes into contact with skin, thoroughly wash the skin with water. Contact a physician if necessary.

-Use the product after it has been equilibrated at room temperature.

-The product should be stored at 2-8 °C. During long storage, the surfactant may precipitate. Precipitation causes change in the concentration. Therefore use the product after the precipitation has been dissolved.

-This product is not suitable for use for blotting membrane stained with TMB, DAB, 4-chloronaphtol or other visually detectable staining, because these stains will not disappear from the membrane.

-If the product is mixed with WB Stripping Solution (Code No.:05364-55), a white precipitation will occur. When both products are used in turns, the blotting membrane must be washed thoroughly with a proper buffer or deionized water for 3-5 times. Use separate trays for different reagents.

Expiration

One year from manufacturing. Expiration date is stated on the product label (Exp. yy / mm)

Ordering Information

| Product name | Grade | Storage | Code No. | PKG Size |
|------------------------------|-------|---------|----------|----------|
| WB Stripping Solution Strong | SP | R | 05677-65 | 500 ml |

For research use only, not intended for diagnostic or drug use.

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