AP Magenta 3 Component Membrane Substrate

Prod. No.: A327  
Pkg. Size: 400 ml, 1 L  
Storage: 2 – 8°C  

Description
Leinco’s AP Magenta 3 Component Membrane Substrate is a precipitating substrate used with the enzyme alkaline phosphatase designed for membrane blotting procedures. The TAC Buffer coupled with a substitute, naphthol, is enzymatically hydrolyzed. In the presence of hexazotized substrate, a fine magenta precipitate is produced at the sites of alkaline phosphatase activity.

Components
1) TAC Buffer (Modified Gormori’s Tris Azo-Coupling Buffer) - 4 x 100 ml or 1 x 1 L  
2) Initiator (Hexa-azonium salt initiator) - 1 x 8 ml or 1 x 20 ml  
3) Magenta Solution - 1 x 8 ml or 1 x 20 ml

Directions for Product Use
1) Add 2 drops, or 100 µl, of Magenta Solution into an appropriate sized test tube or collection vessel.  
2) Add 2 drops, or 100 µl, of Initiator Solution to the 100 µl of Magenta Solution in step one. Gently mix and allow solution to sit for 3 to 5 minutes.  
3) After the 3 to 5 minute incubation, add 5 ml of TAC Buffer and mix. USE IMMEDIATELY! (NOTE: Reagent is stable for up to one hour. Some color and turbidity may develop over this time frame. However, this does not affect product performance.)  
4) Apply sufficient substrate solution to cover the membrane completely.  
5) Incubate samples 10 minutes to 60 minutes, at room temperature, depending on individual preferences of staining intensity.

Sites of enzymatic activity vary from pink to magenta depending in antigenicity and length of staining. Dilution of substrate is not recommended. To reduce the intensity of the reaction, it is recommended that antibodies or conjugates be diluted.

Storage and Stability
The high quality of this substrate can be preserved by storing at temperatures between 2 – 8ºC. When properly stored, AP Magenta 3 Component Substrate is stable for a minimum of 18 months from the manufactured date.

Reported Applications
AP Magenta 3 Component Membrane Substrate is suitable for use in Western Blotting.

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Products are for research use only. Not for use in diagnostic or therapeutic procedures.
## Related Products

- UltraAvidin™-Alk. Phos. ([Leinco Prod. No.: A108](#))
- Streptavidin- Alk. Phos. ([Leinco Prod. No.: S208](#))
- Goat Anti-Mouse IgG (H&L)- Alk. Phos. ([Leinco Prod. No.: M290](#))
- Goat Anti-Human IgG (H&L)-Alk. Phos. ([Leinco Prod. No.: H627](#))
- Goat Anti-Rat IgG (H&L)-Alk. Phos. ([Leinco Prod. No.: R1216](#))
- Goat Anti-Rabbit IgG (H&L)-Alk. Phos. ([Leinco Prod. No.: R1191](#))
- Goat Anti-Armenian Hamster IgG (H&L)-Alk. Phos. ([Leinco Prod. No.: A130](#))

## TMB Membrane & IHC Group

### Trouble Shooting Guide

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<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Too much background signal observed on membrane</td>
<td>AP Magenta substrate was left on the membrane too long</td>
<td>Decrease the amount of time the AP Magenta substrate is on the membrane</td>
</tr>
<tr>
<td></td>
<td>Too much primary antibody used</td>
<td>Decrease the amount of primary antibody used and wash membrane well after the primary antibody incubation</td>
</tr>
<tr>
<td></td>
<td>Too much secondary antibody used</td>
<td>Decrease the amount of secondary antibody used</td>
</tr>
<tr>
<td>Nonspecific bands show up on the membrane</td>
<td>Too much primary antibody used</td>
<td>Decrease the amount of primary antibody used and wash membrane well after the primary antibody incubation</td>
</tr>
<tr>
<td></td>
<td>Too much secondary antibody used</td>
<td>Decrease the amount of secondary antibody used</td>
</tr>
<tr>
<td>Signal disappears from membrane</td>
<td>Membrane not stored correctly</td>
<td>Store the membrane in the dark in High Purity Water</td>
</tr>
<tr>
<td>No signal is observed on the membrane</td>
<td>Low amounts of specific protein present</td>
<td>Expose the membrane to AP Magenta substrate for a longer period of time. Include positive control(s) during analysis</td>
</tr>
<tr>
<td></td>
<td>Insufficient primary antibody used</td>
<td>Use more primary antibody</td>
</tr>
<tr>
<td></td>
<td>Insufficient secondary antibody used</td>
<td>Use more secondary antibody</td>
</tr>
<tr>
<td></td>
<td>Protein degraded into fragments</td>
<td>Add protease inhibitors to original sample before running a gel</td>
</tr>
</tbody>
</table>

## Country of Origin

USA

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