Product datasheet

Biotinylation Kit / Biotin Conjugation Kit (Fast, Type A)
ab201795

Overview

Product name
Biotinylation Kit / Biotin Conjugation Kit (Fast, Type A)

Product overview
Biotinylation Kit / Biotin Conjugation Kit (ab201795) uses a simple and quick process to conjugate an antibody to Biotin. It can also be used to conjugate other proteins or peptides.

To conjugate an antibody to Biotin using this kit:
- add modifier to antibody and incubate for 15 mins
- add quencher and incubate for 5 mins
The conjugated antibody can be used immediately in WB, ELISA, IHC etc. No further purification is required and 100% of the antibody is recovered for use.

Learn about buffer compatibility below; for incompatible buffers and low antibody concentrations, use our rapid antibody purification and concentration kits. Use the FAQ to learn more about the technology, or about conjugating other proteins and peptides to Biotin.

The Type A Biotinylation Kit / Biotin Conjugation Kit has been optimized to produce conjugates for assays in which a streptavidin-labeled detection reagent will be used.

Use the Type B Biotinylation Kit / Biotin Conjugation Kit ab201796 for assays in which the biotinylated protein is captured by streptavidin immobilized on a surface (e.g., plates, nitrocellulose, magnetic beads etc).

Notes

<table>
<thead>
<tr>
<th>Kit size</th>
<th>Recommended amount of antibody¹</th>
<th>Maximum amount of antibody¹</th>
<th>Maximum antibody volume²</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 µg</td>
<td>3 x 10 µg</td>
<td>3 x 20 µg</td>
<td>3 x 10 µL</td>
</tr>
<tr>
<td>300 µg</td>
<td>3 x 100 µg</td>
<td>3 x 200 µg</td>
<td>3 x 100 µL</td>
</tr>
<tr>
<td>1 mg</td>
<td>1 mg</td>
<td>2 mg</td>
<td>1 mL</td>
</tr>
</tbody>
</table>

¹ Using the maximum amount of antibody may result in less labelling per antibody.

² Ideal antibody concentration is 1mg/ml. 0.5 - 1 mg/ml can be used if the maximum antibody volume is not exceeded. Antibodies > 5mg/ml or < 0.5 mg/ml should be diluted /concentrated.
Buffer Requirements for Conjugation

Buffer should be pH 6.5-8.5.

Compatible buffer constituents

If a concentration is shown, then the constituent should be no more than the concentration shown. If several constituents are close to the limit of acceptable concentration, then this can inhibit conjugation.

- 50mM / 0.6% Tris
- 0.1% BSA
- 50% glycerol
- 0.1% sodium azide
- PBS
- Potassium phosphate
- Sodium chloride
- HEPES
- Sucrose
- Sodium citrate
- EDTA
- Trehalose

1 Tris buffered saline is almost always ≤ 50 mM / 0.6%
2 BSA can also interfere with the use of the conjugated antibody in tissue staining.

Incompatible buffer constituents

- Thiomerosal
- Proclin
- Glycine
- Arginine
- Glutathione
- DTT

If a constituent of the buffer containing your antibody or protein is not listed above, please check the FAQ or contact us.

Only purified antibodies are suitable for use, ie. where other proteins, peptides, or amino acids are not present: antibodies in ascites fluid, serum or hybridoma culture media are incompatible.

Tested applications

Suitable for: Conjugation

Properties

Storage instructions

Store at -20°C. Please refer to protocols.

<table>
<thead>
<tr>
<th>Components</th>
<th>30 µg</th>
<th>300 µg</th>
<th>1 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biotin (Type A) Conjugation Mix</td>
<td>3 vials</td>
<td>3 vials</td>
<td>1 vial</td>
</tr>
<tr>
<td>Biotin (Type A) Modifier Reagent</td>
<td>1 vial</td>
<td>1 vial</td>
<td>1 vial</td>
</tr>
<tr>
<td>Biotin (Type A) Quencher Reagent</td>
<td>1 vial</td>
<td>1 vial</td>
<td>1 vial</td>
</tr>
</tbody>
</table>

Applications

Our Abpromise guarantee covers the use of ab201795 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conjugation</td>
<td>Use at an assay dependent concentration.</td>
<td></td>
</tr>
</tbody>
</table>
This illustration demonstrates a general procedure and will slightly vary dependent on the conjugate used.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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