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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

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- Trockeneiszuschlag
- Gefahrgutzuschlag
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USER GUIDE

Streptavidin/Biotin Blocking Kit

Together we breakthrough™

Cat. No. SP-2002

Storage 2–8 °C

Principle

This blocking kit is designed to be used only in conjunctions with streptavidin detection systems.

Some tissues may bind streptavidin, biotinylated horseradish peroxidase or other Biotin/Streptavidin System components. This binding may be due to endogenous biotin or biotin-binding proteins, lectins, or nonspecific binding substances present in the section. If a high background is present using streptavidin conjugates in the absence of biotinylated secondary antibody, pre-treatment of the tissue with streptavidin, followed by biotin (to block the remaining biotin binding sites on the streptavidin), may be required.

The blocking kit consists of a streptavidin solution and a biotin solution. Pre-treatment of the section with the streptavidin solution should always be followed by incubation with the biotin solution. The streptavidin and biotin solutions should be used directly as supplied.

Components

Product Name	Volume
Streptavidin Solution	18 ml
Biotin Solution	18 ml

Suggested Protocol for Tissue Sections

After incubation with normal serum, incubate section with streptavidin solution for 15 minutes. Rinse briefly with buffer, then incubate for 15 minutes with the biotin solution. These steps should be performed prior to the addition of primary antibody or lectin.

In many cases an alternative procedure has proved satisfactory. This method incorporates streptavidin/biotin blocking into the normal steps employed in labeling. Four drops of the streptavidin solution can be added to each 1 ml of the diluted normal blocking serum (preferably dialyzed to remove any free biotin from the serum). This reagent is used in place of the usual serum block step. After a brief rinse, the primary antibody is added, containing 4 drops of the biotin solution per 1 ml of primary antibody. This step not only introduces the primary antibody into the section, but blocks the available biotin binding sites on the streptavidin. Combining the biotin block step with the primary antibody step is not recommended if the primary antibody is biotinylated. When using biotinylated primary antibodies, the biotin solution should be added prior to the addition of primary antibody as a separate step.

Suggested Protocol for Transfer Blots

After the initial blocking step with 1x casein, the membrane is immersed for 10 minutes in a dilute streptavidin solution prepared by dispensing 2 drops of the streptavidin solution into 10 ml of TBS. Wash briefly with buffer. Incubate the membrane for 10 minutes in a dilute biotin solution, made by dispensing 2 drops of the biotin solution into 10 ml of TBS. Proceed with the transfer blot detection procedure.

Detailed product listings, specifications, protocols and additional information is available on our website: vectorlabs.com

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