

Novocastra™

Avidin/Biotin Blocking System

Product Code: RE7170-K

Intended Use	FOR RESEARCH USE ONLY.
Introduction	Some tissues may bind avidin, biotinylated horseradish peroxidase, biotinylated alkaline phosphatase or other Biotin/Avidin System components without prior addition of biotinylated antibody. 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 Avidin Biotin Complex (ABC) reagents, or other avidin conjugates, in the absence of biotinylated secondary antibody, then pre-treatment of the tissue with avidin, followed by biotin to block the remaining biotin binding sites on the avidin (avidin has four binding sites for biotin) may be required. The Novocastra™ Avidin/Biotin Blocking System RE7170-K can be used for this purpose
Reagents Provided	<ol style="list-style-type: none">1. Avidin RE7131 (18 mL)2. Biotin RE7132 (18 mL)
Storage and Stability	Store at 2–8 °C. Return to 2–8 °C immediately after use. To prevent evaporation, secure the caps on the bottles when they are not in use. Do not use after expiration date indicated on the product label. Storage conditions other than those specified above must be verified by the user.
Warnings and Precautions	Appropriate precautions should be taken when using and disposing of these reagents including gloves, eye protection, laboratory coats and good laboratory practice. Dispose in accordance with local regulations. A Material Safety Data Sheet (MSDS) is available upon request.
Instructions for Use	<p>The following steps should be performed in immunohistochemical procedures prior to incubation with primary antibody.</p> <ol style="list-style-type: none">1. Incubate tissue sections with Avidin RE7131 for 15 minutes at 25 °C.2. Wash in buffer for 5 minutes.3. Incubate tissue sections with Biotin RE7132 for 15 minutes 25 °C.4. Wash in buffer for 5 minutes.
Notes	In immunohistochemical procedures that use blocking sera an alternative procedure has proved satisfactory. This method incorporates avidin/biotin blocking into the normal steps employed in labeling. Four drops of Avidin RE7131 can be added to each 1 mL of the diluted 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 in wash buffer, the primary antibody is added, containing 4 drops of Biotin RE7132 per 1 mL of primary antibody. This step not only introduces the primary antibody into the section, but also blocks the available biotin binding sites on the avidin. 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.

