Avidin/Biotin Blocking Reagent Set

Catalog Number:

Cat No.	Description	Size	Good For**
B04-L	Avidin/Biotin Blocking Reagent Set	125ml	1250 slides
B04-M	Avidin/Biotin Blocking Reagent Set	18ml	180 slides
B04-S	Avidin/Biotin Blocking Reagent Set	6ml	60 slides

**Number of good for slides is calculated based on adding 100ul per slide.

Intended Use:

MaxVision's Avidin/Biotin Blocking Reagent Set is designed specifically to eliminate endogenous biotin, biotin receptors or avidin binding sites present on tissue sections. The tissue sample can be paraffin-embedded tissue section, frozen sections and cell preparations.
***Known applications*:** Immunohistochemistry.

It is for research use only.

Introduction:

Avidin/Biotin Blocking Reagent Set consists of two solutions: Avidin Solution and Biotin Solution. It is used for inhibit the non-specific staining caused by endogenous biotin in IHC procedure. Certain tissues like liver, kidney and spleen contain rich endogenous biotin which will bind to streptavidin conjugates when detection system used labeled straptadvin-biotin detection method. This will attribute to high non-specific background. Pretreatment with Avidin/Biotin blocking reagent will help eliminate this problem. Biotin solution incubation should always follow after avidin solution pre-treatment of the section.

Reagent Provided:

The volume of each reagent provided in the kits is listed below:

Reagent Descriptions	**\ Cat No.**	**B04-L**	**B04-M**	**B04-S**
Reagent 1: Avidin Solution (ready to use)		1 x 125ml	1 x 18ml	1 x 6ml
Reagent 2: Biotin Solution (ready to use)		1 x 125ml	1 x 18ml	1 x 6ml

Avidin Solution and Biotin Solution are formulated solution in PBS buffer with preservative. They are prediluted. Reconstitution, mixing, dilution or titrations of these reagents are not recommended.

Storage and Stability:

Store at 2-8^{0}C. Do not freeze. Return to 2-8^{0}C immediately after use. Do not use the reagents if the expiration dates on the label have passed. Do not mix the reagents from different lot. Since there are no obvious signs to indicate the instability of this product therefore positive and negative controls should be run simultaneously with test specimens.

Warnings and Precautious:

1. For professional users.
2. The Material Safety Data Sheet is available upon request or available from http://www.maxvisionbio.com.
3. Do not substitute reagents from other lot numbers or from kits of other manufacturers.
4. Incubation times or temperatures other than recommendation must be validated by the user.
5. Specimens, before or after fixation and all materials exposed to them, should be handled as if infectious and disposed of with proper precautious.
6. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.
7. Unused solution should be disposed of according to local, State and Federal regulations.

Protocol Recommendations:

Avidin/Biotin Blocking Reagent Set should be used directly as supplied prior to primary antibody incubation.

After normal serum or protein block, incubate section with Avidin Solution **(Reagent 1)** for 10 minutes. Rinse briefly with wash buffer, and then apply Biotin Solution **(Reagent 2)** for 10 minutes. Rinse briefly with wash buffer.

The endogenous biotin or avidin activity is now blocked and the sections are ready for the application of primary antibody following standard immunohistostaining procedures.

Limitations and warranty:

Immunohistochemistry is a multistep process and good results will depend on the proper handling and processing of the tissue both prior to and during staining. Improper fixation, freezing, thawing, washing, drying, heating, sectioning or contamination with other tissues or fluids may produce artifacts, antibody trapping, or false negative results. Inconsistent results may be due to variations in fixation and embedding methods, or to inherent irregularities within the tissue. Our warranty is limited to the actual price paid for the product. We are not liable for any property damage, personnel injury, time, effort or economic loss due to use our product.

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