WHITEPAPER

Make the Most of your Mouse on Mouse Staining

BIOCARE MEDICAL

Make the Most of Your Mouse on Mouse Staining

Mouse models are important tools for studying human disease. With many primary antibodies being raised in mice, performing immunohistochemistry on mouse tissue utilizing mouse antibodies presents challenges in the research environment. This situation can result in spurious staining and high background due to the non-specific binding of secondary anti-mouse antibody to endogenous mouse IgG and other components. Blocking this non-specific binding is essential to achieving worthwhile and successful experiments in the research environment.

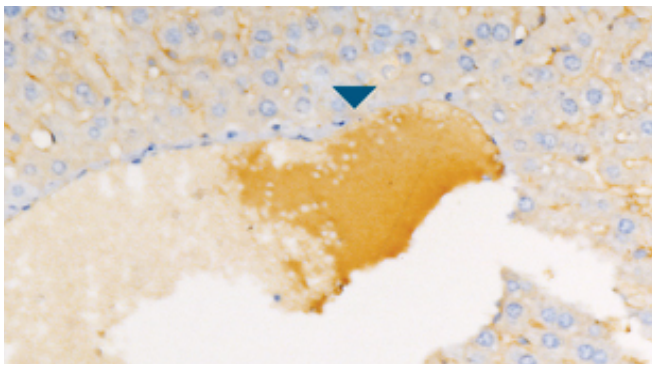
Even though mouse monoclonal primary antibodies and the use of mouse tissue are prevalent, there are several solutions to dealing with this issue:

Use a primary antibody raised in another species such as rabbit, if possible.

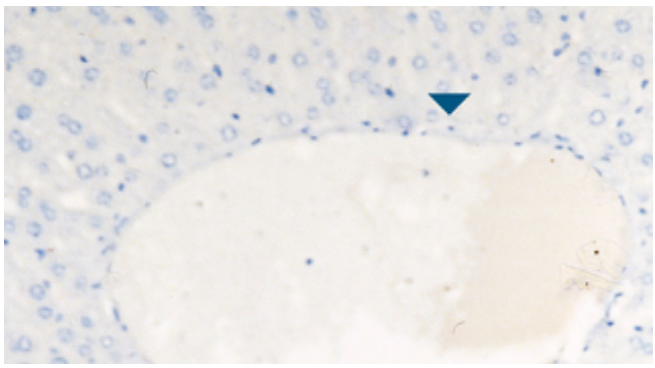
Direct detections utilizing a directly conjugated mouse primary antibody avoiding the need for an anti-mouse secondary.

Use of anti-mouse blocking reagent and micro-polymer detection technology.

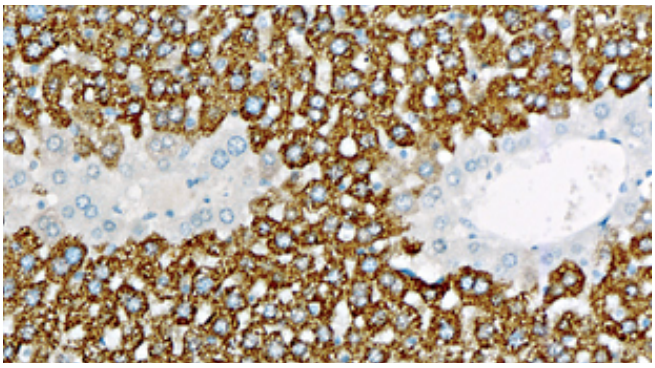
Biocare Medical's Mouse-on-Mouse polymer is a one-step micro-polymer detection specifically designed for the use of mouse primary antibodies on mouse tissue while minimizing cross-reactivity to endogenous mouse IgG. Utilization of this goat anti-mouse polymer is advantageous over traditional biotinylation methods as it provides the elimination of endogenous biotin background, reduction of IHC steps and increased sensitivity. Use this Mouse-on-Mouse polymer in conjunction with Biocare's Rodent Block M and Rodent Decloaker retrieval solution to further reduce and/or eliminate endogenous background staining.



Mouse liver without Rodent Block



Mouse liver with Rodent Block



Mouse-on-Mouse: Mouse Hepatocyte Specific Antigen on Mouse Liver

To support your research needs and for more information on these products, contact Biocare at 800-799-9499 or www.biocare.net.