

Which Biocare Antibodies Are Right For Your Ventana Instrument?

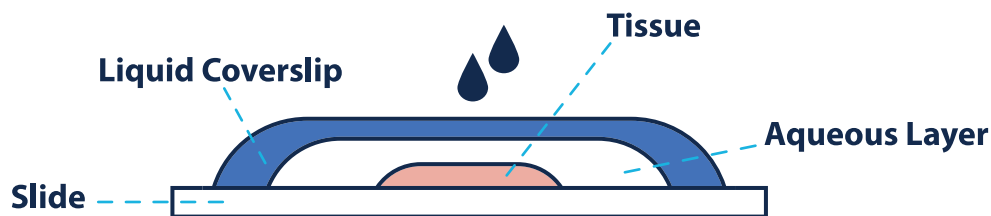
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With so many automated IHC instruments on the market, it is important to understand how the mechanics of your instrument can affect antibody staining. While some instruments use cover tiles, reaction chambers, and dynamic gap technology, Ventana instrumentation utilizes a “liquid coverslip” reagent to ensure complete slide coverage and prevent tissue drying effect when combined with reaction buffer. Primary antibody and other reagents are then dispensed into the liquid coverslip/reaction buffer combination throughout the IHC protocol. While Ventana antibodies are optimized under these conditions, other vendors antibodies can essentially be further diluted through this process, leading to less than optimal staining. In many cases the staining may look ‘weak’ because of the increased dilution effect of the approach.

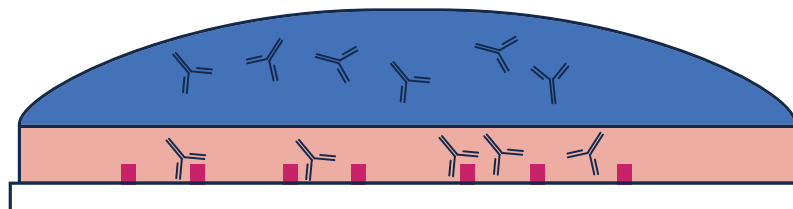
To counteract this dilution, Biocare Medical has created a line of prediluted antibodies specially formulated for use on Ventana platforms. This line of antibodies, called “UltraLine Antibodies”, is optimized in Biocare’s Quality Control Lab using Ventana’s Benchmark Ultra® slide-staining system to ensure appropriate staining intensity. To aid in optimization, protocols utilizing ultraView or OptiView detection are specified on the corresponding antibody datasheet. The UltraLine from Biocare covers a wide range of antibodies used in all tissue types including p63 and ERG for prostate, MSI panel for colon, and CK5/14 + p63 + CK7/18 double stain for breast tissue.

Does this mean “normal” prediluted antibodies or concentrated antibodies will not work on Ventana instruments? Not necessarily! Alongside UltraLine prediluted antibodies, Biocare offers protocol recommendations for a portion of their standard ready-to-use antibodies. When using concentrated antibodies, we recommend starting test dilutions at approximately one-third to one quarter of the lowest dilution value stated on the datasheet (i.e. if the datasheet states “1:100 to 1:200”, one should start with a 1:25 dilution).

How Biocare Antibodies Work With Liquid Coverslip Technology



A liquid coverslip and reaction buffer mixture is dispensed onto the tissue slide throughout the IHC protocol.



Antibodies are dispensed into the mixture of liquid coverslip and reaction buffer.

To learn more about the Biocare’s offering for your lab, please contact us anytime at 800-799-9499 or view our full line of antibodies for your Ventana instrument here: <https://biocare.net/product-category/primary-antibodies/ventana-antibodies/>.

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