

# HbA1c Rabbit Monoclonal Antibodies: Validation and Performance

## Antibodies Overview

Our specialized antibodies are meticulously designed to target the glycated peptide of HbA1c. These antibodies are vital tools that enable accurate detection native glycated hemoglobin HbA1c.

## Potency in Action: EC50 Data

The EC50 data, signifying the concentration at which an antibody attains 50% maximum binding, holds significant importance within immunoassays. This measure provides a direct glimpse into the antibody's strength, sensitivity, and binding affinity—key factors for optimizing assays. With our antibody displaying a lower EC50 value, denoting elevated sensitivity and affinity, it exhibited robust binding efficacy even at a minimal concentration. This data aids in refining assay conditions, ensuring precise detection even in scenarios involving low-concentration analytes. By steering the choice of optimal antibody concentration and enhancing sensitivity, the EC50 data bolsters the accuracy and efficiency of our immunoassay, reinforcing its trustworthiness in practical applications.

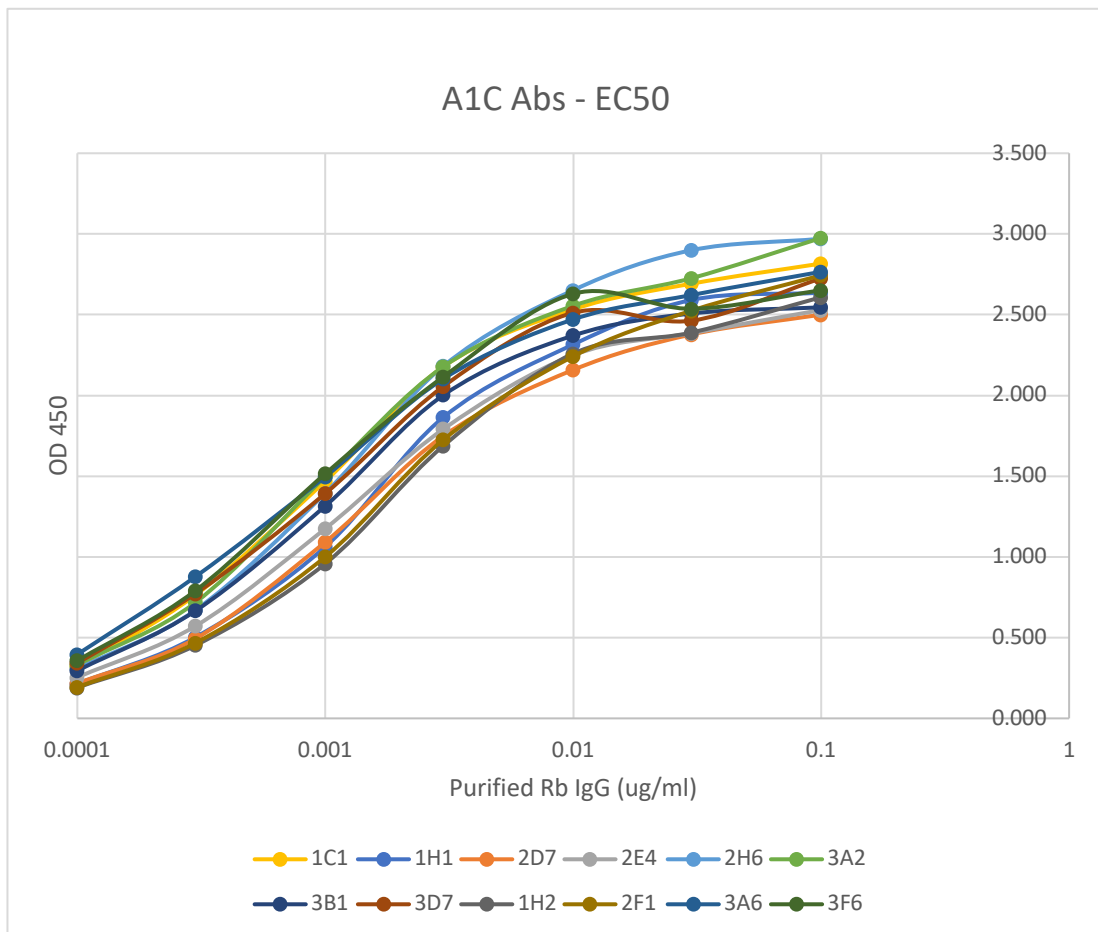


Figure A: EC50 assay of HbA1c rabbit monoclonal antibodies. Glycated peptide was coated at 2 ug/ml. HRP conjugated goat anti-rabbit IgG antibody used for detection at 1:10,000. Data was modeled and analyzed with GraphPad-Prism.

## Specificity of HbA1c antibodies

Specificity of antibodies is crucial for assessing the reliability and precision of HbA1c antibody tests, ultimately impacting their effectiveness in glycated hemoglobin (HbA1c) measurement and diabetes management. Specificity has been checked in direct ELISA.

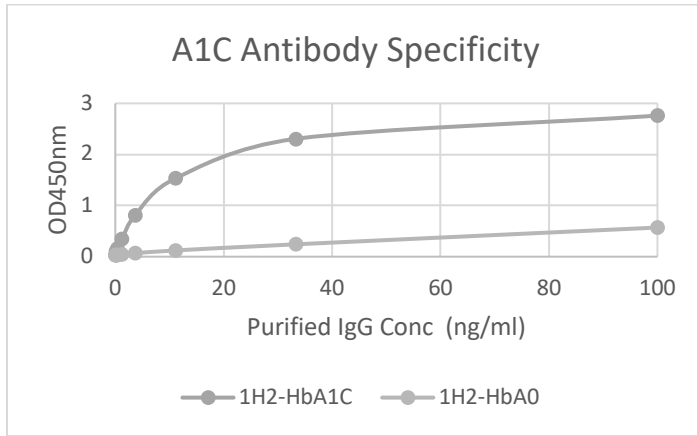


FIGURE 1. Specificity of MAb 1H2 interaction with HbA1c checked by direct ELISA. HbA0, the non-glycated hemoglobin used as reference.

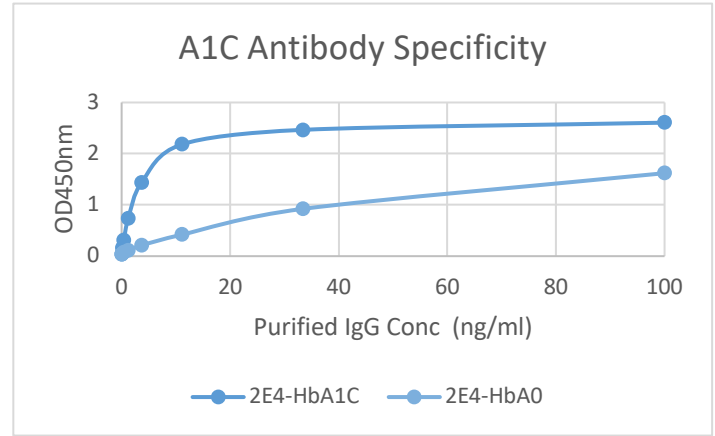


FIGURE 2. Specificity of MAb 2E4 interaction with HbA1c checked by direct ELISA. HbA0, the non-glycated hemoglobin used as reference.

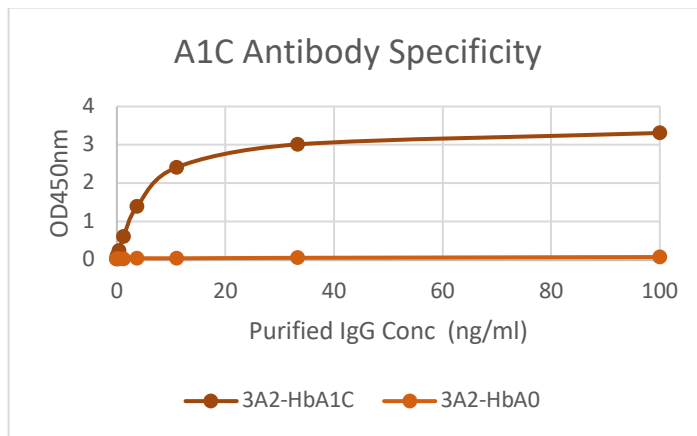


FIGURE 3. Specificity of MAb 3A2 interaction with HbA1c checked by direct ELISA. HbA0, the non-glycated hemoglobin used as reference.

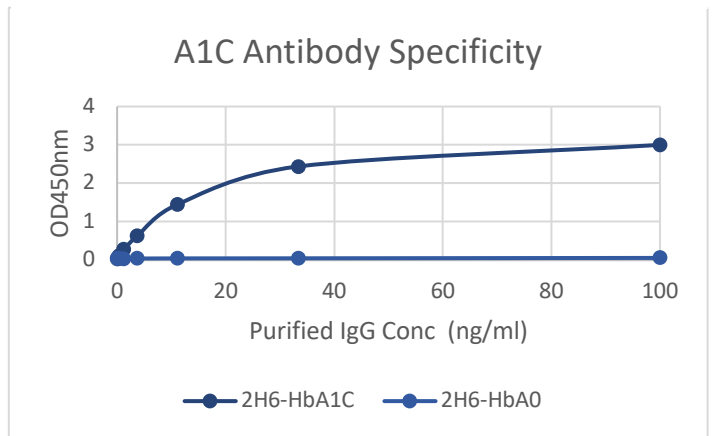


FIGURE 4. Specificity of MAb 2H6 interaction with HbA1c checked by direct ELISA. HbA0, the non-glycated hemoglobin used as reference.

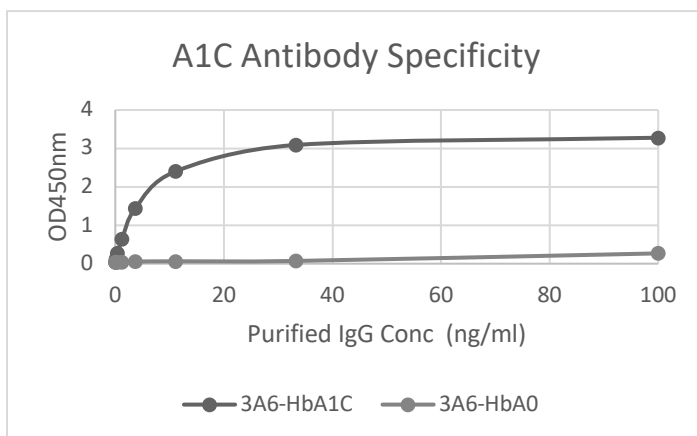


FIGURE 3. Specificity of MAb 3A6 interaction with HbA1c checked by direct ELISA. HbA0, the non-glycated hemoglobin used as reference.

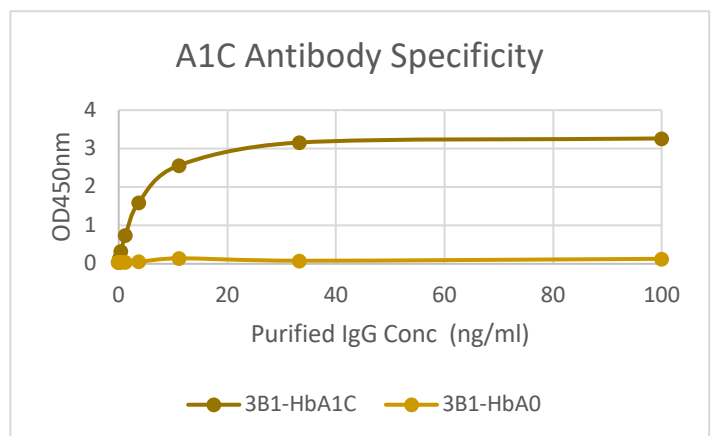


FIGURE 3. Specificity of MAb 3B1 interaction with HbA1c checked by direct ELISA. HbA0, the non-glycated hemoglobin used as reference.

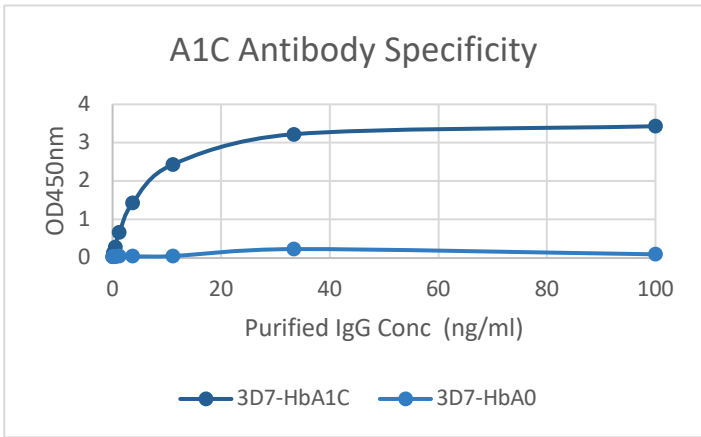


FIGURE 3. Specificity of MAb 3D7 interaction with HbA1c checked by direct ELISA. HbA0, the non-glycated hemoglobin used as reference.

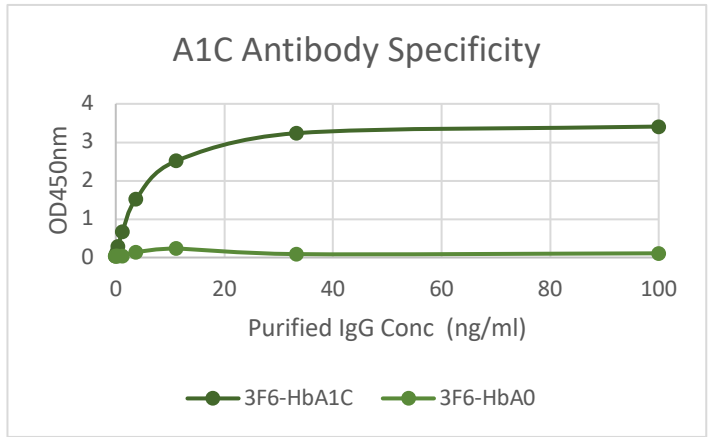


FIGURE 3. Specificity of MAb 3F6 interaction with HbA1c checked by direct ELISA. HbA0, the non-glycated hemoglobin used as reference.

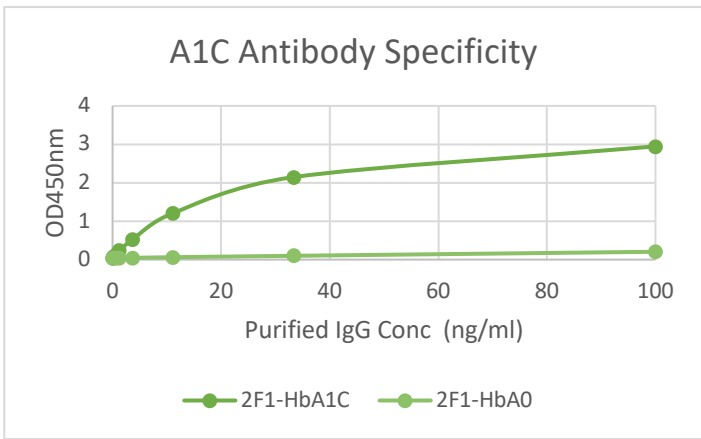


FIGURE 3. Specificity of MAb 2F1 interaction with HbA1c checked by direct ELISA. HbA0, the non-glycated hemoglobin used as reference.

### Rigorous Quality Control ISO 17025:2017

We make sure our IVD grade antibodies meet the highest standards, and our ISO-controlled production process plays a key role. At every step, from making the antibodies to purifying them, we rigorously test to ensure they are consistent, reliable, and perform well. Following ISO standards means we have set procedures in place that help us maintain consistent quality, making sure every batch is just as good as the last. Our commitment to this process shows how dedicated we are to providing you with antibodies you can trust for your immunoassay need.

# Unlocking the Power of Rapid HbA1c Testing: Revolutionizing Diabetes Management

In the realm of diabetes care, the importance of rapid HbA1c testing cannot be overstated. At the heart of effective diabetes management lies HbA1c, or glycated hemoglobin, a vital marker for long-term blood sugar control. Rapid HbA1c testing offers an array of substantial advantages, each contributing to the enhancement of patient care and healthcare efficiency.

**Swift Assessment for Timely Adjustments:** The immediate assessment of a patient's glucose control through rapid HbA1c testing enables healthcare professionals to make timely adjustments to treatment plans. Whether it's optimizing medication regimens or recommending lifestyle changes, the speed of the test empowers healthcare providers to act swiftly, ensuring better blood sugar management.

**Preventing Diabetes Complications:** Uncontrolled diabetes can lead to a range of debilitating complications. Rapid HbA1c testing plays a pivotal role in preventing these complications by allowing healthcare providers to intervene promptly. The ability to manage blood sugar levels effectively is crucial for safeguarding patients' long-term health.

**Unparalleled Convenience:** For both patients and healthcare providers, rapid HbA1c tests bring unmatched convenience. They eliminate the need for multiple visits and reduce waiting times, simplifying the testing process and streamlining healthcare delivery. This efficiency not only saves time but also ensures that patients receive the most appropriate care without unnecessary delays.

**Enhancing Healthcare Efficiency:** Rapid HbA1c testing is a game-changer for healthcare efficiency. It expedites the decision-making process, enabling providers to make informed choices swiftly. This, in turn, results in more efficient use of healthcare resources, improved patient outcomes, and reduced healthcare costs.

In summary, the availability of HbA1c rapid tests significantly elevates diabetes management, contributing to patient well-being and healthcare system efficiency. Harness the power of rapid HbA1c testing to revolutionize diabetes care and provide your patients with the best in timely, effective treatment.