

# Gator<sup>®</sup> IgM Probes for Quantitation and Kinetics of IgM

IgM is the largest antibody class, consisting of five monomeric immunoglobulin units (subunits). This structure gives IgM a pentameric (five-unit) configuration. Each monomeric unit has two heavy chains and two light chains, connected by disulfide bonds. IgM antibodies are being explored in antibody discovery for various applications including therapeutics, vaccines and diagnostics. Gator<sup>®</sup> IgM probes are optimized for quantitation and kinetics analysis of human, mouse and rat IgM antibodies.

## PRODUCT INFORMATION

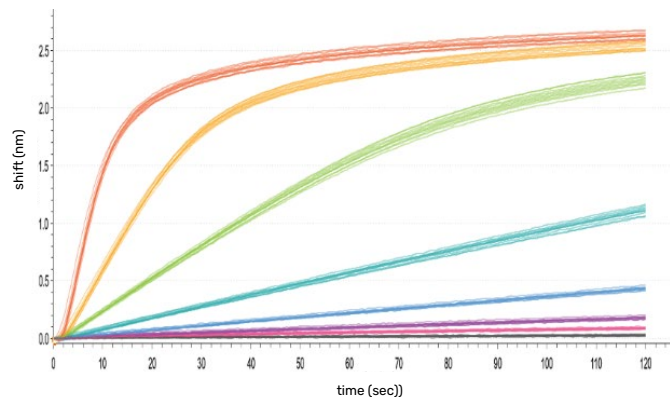
**Part Number**  
160044

**Includes**  
IgM Probes (96 probes/tray)

## KEY BENEFITS

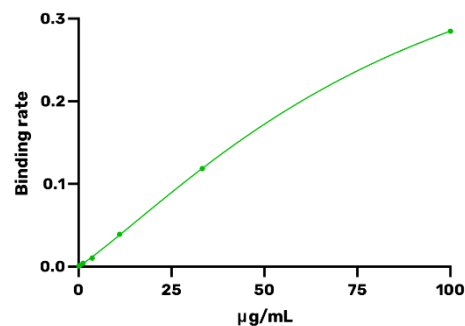
- Dynamic range: 0.1 – 100 µg/mL in buffer, and 0.4 – 300 µg/mL in culture media.
- Very low cross reactivity to IgG.
- Up to 10 regenerations.
- Stable baseline suitable for kinetics.

## IgM QUANTITATION IN BUFFER



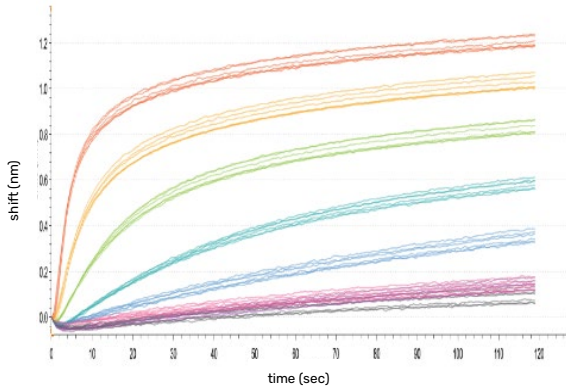
Binding of mouse IgM (0.14 – 100 µg/mL) in Q buffer (PN 120010) over 10 regenerations. Regeneration is done using Regen Buffer (no salt), PN 120063.

## DYNAMIC RANGE

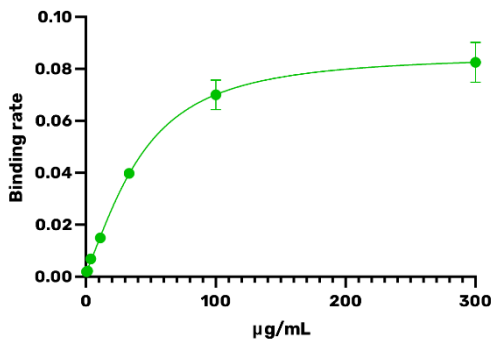


Standard curve for IgM in Q Buffer. Concentration ranges from 0.1 – 100 µg/mL.

## QUANTITATION IN CULTURE MEDIA

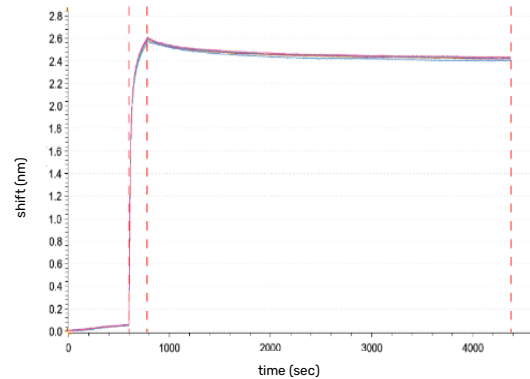


Binding of mouse IgM (0.4 – 300 µg/mL) in CHO cell media over 5 regenerations. Regeneration is done using Regen Buffer (no salt), PN 120063.



Standard curve for IgM in CHO cell culture media. Concentration ranges from 0.4 – 300 µg/mL.

## STABLE BASELINE FOR KINETICS



IgM loading at 25 µg/mL followed by 1 hour baseline in K buffer, PN 120011.

## SUMMARY

IgM probes are useful for immobilizing IgM antibodies for quantitation and kinetics. They offer:

- Broad dynamic range spanning over four orders of magnitude.
- Compatibility with crude matrices like cell culture media.
- Excellent performance for at least 10 regenerations for purified samples.
- Stable baseline enabling accurate kinetics analysis.

