

Anti-Drug Antibody (ADA) Bridging ELISA

ADA - Obtinutuzumab

For Use with Anti-Obinutuzumab Monoclonal Antibodies catalog #HCA403, #HCA404, and #HCA405

This method provides a procedure for generating an ADA ELISA standard curve with Anti-Obinutuzumab Antibody, #HCA403, #HCA404, or #HCA405 using obinutuzumab antibody for capture and detection. The method should always be used in conjunction with product and batch specific information provided with each vial (see product datasheets). This protocol will need to be adjusted for use with different detection methods and immunoassay technology platforms.

Reagents

- BSA (Sigma-Aldrich, #A7906)
- HISPEC Assay Diluent (#BUF049)
- Human Serum (Sigma-Aldrich, #H4522)
- LYNX Rapid HRP Antibody Conjugation Kit (#LNK001P-LNK006P)
- PBS
 - 136 mM NaCl
 - 2.68 mM KCI
 - 8.1 mM Na₂HPO₄
 - 1.46 mM KH₂PO₄
- PBST
 - PBS with 0.05% Tween 20 (Merck Millipore, #817072)
- QuantaBlu Fluorogenic Peroxidase Substrate (Thermo Fisher Scientific, #15169)

Materials

- 384-well microtiter plate, black, square flat-bottom wells, for example, Black 384-Well Immuno Plates (Thermo Fisher Scientific, #460518)
- Fluorescence plate reader

96-well plates can be used instead of 384-well plates, (black, flat-bottom wells) for example, Black 96-Well Immuno Plates (Thermo Fisher Scientific, #437111). For the 96-well format use 100 μ l (instead of 20 μ l) of antigen, antibodies, or substrate and 300 μ l for the blocking step.

Method

- 1. Prepare the detection antibody: conjugate obinutuzumab using a LYNX Rapid HRP Antibody Conjugation Kit.
- Prepare the unconjugated obinutuzumab capture antibody at 1 μg/ml in PBS. Coat the required number of wells of a 384-well microtiter plate with 20 μl per well of the prepared obinutuzumab, and incubate overnight at 4°C.
- 3. Wash the microtiter plate five times (5x) with PBST.
- 4. Block the microtiter plate by adding 100 μ l 5% BSA in PBST to each well, and then incubate for 1 hr at RT.
- 5. Wash the microtiter plate 5x with PBST.
- 6. For the standard curve, prepare a dilution series of the Anti-Obinutuzumab Antibody #HCA403 (AbD50319ia), #HCA404 (AbD50514ia), or #HCA405 (AbD50104ia) in 10% human serum in PBST in triplicate. Final concentration of Anti-Obinutuzumab Antibody should cover the range from 1 ng/ml to 100,000 ng/ml. Include a zero Anti-Obinutuzumab Antibody concentration as the background value.
- Add 20 µl of Anti-Obinutuzumab Antibody dilution per well (in triplicate for each standard recommended) and incubate for 1 hr at RT.
- 8. Wash the microtiter plate 5x with PBST.
- 9. To each well add 20 μ I HRP conjugated obinutuzumab diluted to 2 μ g/ml in HISPEC Assay Diluent and incubate for 1 hr at RT.
- 10. Wash the microtiter plate 10x with PBST.
- 11. Add 20 µl QuantaBlu Fluorogenic Peroxidase Substrate to each well and measure the fluorescence after 30 min.



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Bulletin 3640 Ver A US/EG 0324 Sig 0124

