

## 항체 추적 시스템을 이용한 공여자 특이 항HLA Class I, II 항체 검출

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The antibody monitoring system (AMS, GTI Inc.) is a solid phase ELISA crossmatch test for the detection of IgG antibody to the donor-specific solubilized HLA class I and class II antigens. The objective of this study was to compare the results of AMS assay with donor specific anti-HLA IgG antibodies (DS-HLA Abs), as determined by ELISA and flowcytometric crossmatch test (FCXM). A total of 107 sera were screened for the presence of HLA Abs by ELISA (LAT-M, One-Lambda Inc.), and the DS-HLA Abs were determined in 34 serum samples (31.8%) by an ELISA panel (LAT class I and class II, One-Lambda Inc.) and FCXM. The FCXM and AMS assays were performed with matched lymphocytes from 56 donors, and there was a significant degree of concordance (89.7%) between the two tests ( $p < 0.001$ ).

The sensitivity, specificity, the positive predictive value and the negative predictive value of AMS assay to detect DS-HLA Abs was 88.2%, 94.5%, 88.2% and 94.5%, respectively. In summary, AMS may be useful as a supportive crossmatch test for detecting class I and/or class II DS-HLA Abs.