

Class I Single Antigen Bead (SAB) Result

SAB HLA Class I : Positive

Donor Specific Antibodies : Class I : Present

Antibody Specificity	Background corrected MFI	Comment
B*44:02	3398	Against Donor Ram Nimson (Brother)
B*44:03	2433	Against Donor Ram Nimson (Brother)

Non Donor Specific Antibodies Class I : Present

Antibody Specificity	Background corrected MFI
B*24:03	1958
B*66:02	1040

Class II Single Antigen Bead (SAB) Result

Donor Specific Antibodies : Class II : Negative

Interpretation Single antigen bead (SAB) class I and class II assays detect anti HLA IgG antibodies in the patient and allow for a precise, highly sensitive determination of a patient's antibody profile. This makes discrimination between donor-specific antibodies (DSA) and non-donor-specific antibodies (non DSA) possible. SAB panels are valuable in supporting a diagnosis of humoral rejection post transplantation, in routine pre-transplantation and post-transplantation monitoring and in assessing the efficacy of antibody reduction programs.

The solid phase immunoassays allow the capture of both the HLA antibody specificities and the level of antibody that is measured as a Mean Florescent Intensity (MFI). The immunologic risk assessment is based on providing MFI information for each defined antibody specificity above a given MFI threshold. MFI of $> \text{ or } = 1000$ is considered as significant.

Recommendations for monitoring with SAB : Pre-transplantation to determine the immunologic risk assessment. Post-transplantation serial screening of serum to determine the time of onset of de novo DSA and to correlate DSA with clinical/renal biopsy profile.

Methodology The test is based on the Luminex technology. The Single Antigen Class I/Class II beads are designed to detect IgG antibodies to HLA Class I / Class II glycoproteins . The SAB Class I / Class II are composed of different Luminex Beads to which purified recombinant Class I / Class II HLA glycoproteins are conjugated. The presence or absence of antibodies in the sera depends on the antigen /antibody binding on these beads that is detected by the luminex optic system.