

HLA ANTIBODY SCREENS

Designed to detect IgG antibodies to Human Leukocyte Antigens (HLA) Class I or Class II

GENERAL INFORMATION

Human Leukocyte Antigens (HLA) are highly polymorphic glycoproteins. As a result of pregnancy, transfusion, or allograft transplantation, approximately 33% of individuals will develop antibodies to HLA.¹ In a patient, these antibodies can cause the immune destruction of transfused platelets and transplanted allografts.² Screening for these antibodies in patient sera, offers clinicians the potential to identify compatible blood products and allografts, and to improve patient care.

The GTI Diagnostics HLA Antibody Screening ELISAs are companion products to the HLA Antibody Identification ELISAs: QUIK-ID® Class I and QUIK-ID® Class II. Antibodies detected with the Screening assays may be further characterized with an HLA Antibody Identification product to determine a panel reactive antibody (PRA) value and specificity.

QUIKSCREEN®

Designed to detect antibodies to Class I HLA

QUIKSCREEN® microwells contain immobilized Class I HLA glycoproteins which were affinity purified from the platelets of approximately 300 random donors where a third are Caucasian, a third are African American and a third are Hispanic. The QUIKSCREEN® Kit is available in two formats:

- QS3G is provided in a solid plate format intended for high through-put users that always batch their antibody screens.
- QS12G is provided in a 1x8 strip format to allow the flexibility to run as few as four or as many as 44 samples at one time.

B-SCREEN®

Designed to detect antibodies to Class II HLA

B-SCREEN® microwells contain immobilized Class II HLA glycoproteins which were affinity purified from EBV transformed B lymphocyte lines carefully balanced to create equal representation of all DR types. B-SCREEN® is provided in a 1x8 strip format to allow maximum flexibility when screening a large or small number of samples.

FEATURES & BENEFITS

- Fast -- up to 44 samples in duplicate can be screened in two hours
- ELISA sensitivity and reliability
- Cost effective

ORDER INFORMATION

CATALOG NO: QS3G
 DESCRIPTION: QUIKSCREEN®
 SIZE: Maximum 40 Tests Per Kit
 AVG SHELF LIFE: 2 Years
 STORAGE: 2-8°C

CATALOG NO: QS12G
 DESCRIPTION: QUIKSCREEN®
 SIZE: Maximum 44 Tests Per Kit
 AVG SHELF LIFE: 2 Years
 STORAGE: 2-8°C

CATALOG NO: BCSG
 DESCRIPTION: B-SCREEN®
 SIZE: Maximum 44 Tests Per Kit
 AVG SHELF LIFE: 2 Years
 STORAGE: 2-8°C

For In Vitro Diagnostic Use.



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RESULTS

In this instance, samples 2 and 5 indicate positive antibody (HLA Class I for QUIKSCREEN® or HLA Class II for B-SCREEN®) reactions. Samples 1, 3 and 4 are non-reactive.

		1	2
Sample 1	A		
Sample 2	B		
Sample 3	C		
Sample 4	D		
Sample 5	E		
Negative Control	F		
Positive Control	G		
Blank Wells	H		

REFERENCES

1. Marsh SGE, Parham P, Barber LD. *The HLA Facts Book* Academic Press 2000, 84-91.
2. Rodey GE. *HLA Beyond Tears*. De Novo, Inc. 2000, 213.
3. Harrison J, Navarrete C. "Selection of Platelet Donors and Provision of HLA Matched Platelets, in Histocompatibility Testing." *Imperial College Press* 2000, 379.
4. Zachary AA, Delaney NC, Lucas DP, Laffell MS. "Characterization of HLA Class I Specific Antibodies by ELISA Using Solubilized Antigen Targets: I. Evaluation of the GTI Quik-ID Assay and Analysis of Antibody Patterns." *Human Immunology* 2001, **62:3**: 228-235.

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