

Client: Example Client ABC123
123 Test Drive
Salt Lake City, UT 84108
UNITED STATES

Physician: Doctor, Example

Patient: Patient, Example

DOB: 10/31/1990
Gender: Female
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

Platelet Antigen 1 Genotyping (HPA-1)

ARUP test code 3001170

Platelet Antigen 1 Specimen whole Blood

Platelet Antigen 1 Genotyping a/a

Platelet Antigen 1 Interpretation See Note

HPA-1a/a Homozygous: Two copies of the common human platelet antigen (HPA)-1 a allele were identified.

Indication for testing: Assess risk for alloimmune thrombocytopenia.

This result has been reviewed and approved by Pinar Bayrak-Toydemir, M.D., Ph.D.

BACKGROUND INFORMATION: Platelet Antigen 1 Genotyping (HPA-1)

Characteristics: Spontaneous fetal intracranial bleeding may occur in 20 percent of pregnancies affected with severe perinatal alloimmune thrombocytopenia (PAT); there is a risk of fetal death. Post-transfusion purpura may occur in transfusion recipients with antibodies to a specific platelet antigen. Incidence: PAT occurs in 1 in 5000 births.

Inheritance: For women homozygous for a rare "b" HPA allele with antibodies to the common "a" allele, there is a 50 percent risk a pregnancy will be affected if her partner is heterozygous for the "a" allele and 100 percent risk if her partner is homozygous for the "a" allele.

Cause: Maternal-fetal HPA incompatibility.

Polymorphism Tested: HPA-1 (ITGB3, GPIIIa) c.176T>C, p.L59P

Clinical Sensitivity: 80 percent in Caucasians, unknown in other ethnicities.

Methodology: PCR followed by fluorescent monitoring.

Analytic Sensitivity and Specificity: 99 percent.

Limitations: Bloody amniotic fluid specimens may give false-negative results because of maternal cell contamination.

Diagnostic errors can occur due to rare sequence variations.

Informed consent: Recommended; forms are available at

<http://www.aruplab.com>.

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement C: aruplab.com/CS

H=High, L=Low, *=Abnormal, C=Critical

VERIFIED/REPORTED DATES				
Procedure	Accession	Collected	Received	Verified/Reported
Platelet Antigen 1 Specimen	20-276-401336	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Platelet Antigen 1 Genotyping	20-276-401336	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Platelet Antigen 1 Interpretation	20-276-401336	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

H=High, L=Low, *=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com
500 Chipeta Way, Salt Lake City, UT 84108-1221
Tracy I. George, MD, Laboratory Director

Patient: Patient, Example
ARUP Accession: 20-276-401336
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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