

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

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** 8/7/2003  
**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 b/b

Platelet Antigen 1 Interpretation See Note

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

Indication for testing: Assess risk for alloimmune thrombocytopenia.

This result has been reviewed and approved by Yuan Ji, 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](http://aruplab.com/CS)

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

VERIFIED/REPORTED DATES				
Procedure	Accession	Collected	Received	Verified/Reported
Platelet Antigen 1 Specimen	20-178-401547	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Platelet Antigen 1 Genotyping	20-178-401547	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Platelet Antigen 1 Interpretation	20-178-401547	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: 20-178-401547  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
Page 2 of 2 | Printed: 10/26/2020 4:44:33 PM  
4848