

Specimen Collected: 14-Sep-21 13:24

Leukocyte Adhesion Deficiency Panel | Received: 14-Sep-21 13:24 Report/Verified: 14-Sep-21 13:29

Procedure	Result	Units	Reference Interval
% CD11b	15 ^L	%	96-100
% CD15	100 ^{f1 i1}	%	95-100
% CD18	15 ^L	%	99-100
% CD11a	15 ^L	%	97-100

Result Footnote

f1: % CD15

Decreased or absent expression of CD11a and or CD11b, and CD18 on neutrophils. This result is consistent with Leukocyte Adhesion Deficiency type I. Disease severity and clinical prognosis have been associated with the level of CD18 expression: severe deficiency (<2% CD18 expression) and moderate deficiency (2%-30% CD18 expression). Genetic testing for mutation of the ITGB2 gene is also recommended, if clinically indicated. Please correlate results clinically.

Reference: Almarza Novoa E, Kasbekar S, Thrasher AJ, et al. Leukocyte adhesion deficiency-I: A comprehensive review of all published cases. *J Allergy Clin Immunol Pract.* 2018;6(4):1418-1420

Test Information

i1: % CD15

INTERPRETIVE INFORMATION: Leukocyte Adhesion Deficiency Panel

The Leukocyte Adhesion Deficiency Panel measures the receptors CD11a, CD11b, CD15, and CD18 normally found on neutrophils. The percentage of patient neutrophils bearing these receptors is reported. Decreased values outside of the reference interval may correlate with abnormal neutrophil function. For example, CD11 and CD18 are decreased or absent in Leukocyte Adhesion Deficiency (LAD) type I and CD15 is decreased or absent in LAD type II.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA-certified laboratory and is intended for clinical purposes.

*=Abnormal, #=Corrected, C=Critical, f=Result Footnote, H-High, i-Test Information, L-Low, t-Interpretive Text, @=Performing lab

Unless otherwise indicated, testing performed at:

ARUP Laboratories

500 Chipeta Way, Salt Lake City, UT 84108

Laboratory Director: Tracy I. George, MD

ARUP Accession: 21-257-900205

Report Request ID: 15048858

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