

B-Cell Phenotyping Profile for Immunodeficiency
and Immune Competence Assessment, Blood

Patient ID SAMPLE	Patient Name PATIENT, TEST	Birth Date 1974-08-04	Sex M	Age 50
Order Number SAMPLE	Client Order Number SAMPLE	Ordering Physician SAMPLE	Report Notes Sample Report	
Account Information SAMPLE		Collected 22 Sep 2024 11:42		

Immune Assessment B Cell Subsets, B

QN Lymphocyte Subsets: T, B, and NK

CD45 Total Lymph Count	SDL Reference Value 0.82–2.84	CD8 (T Cells)	SDL Reference Value 145–846
1.33 thou/mcL		481 cells/mcL	
% CD3 (T Cells)	SDL Reference Value 58–86	% CD19 (B Cells)	SDL Reference Value 6–24
63 %		24 %	
CD3 (T Cells)	SDL Reference Value 550–2202	CD19 (B Cells)	SDL Reference Value 70–409
839 cells/mcL		400 cells/mcL	
% CD4 (T Cells)	SDL Reference Value 32–64	% CD16+CD56 (NK cells)	SDL Reference Value 4–28
32 %		4 %	
CD4 (T Cells)	SDL Reference Value 365–1437	CD16+CD56 (NK cells)	SDL Reference Value 59–513
370 cells/mcL		60 cells/mcL	
% CD8 (T Cells)	SDL Reference Value 13–40	4/8 Ratio	1 SDL Reference Value ≥0.9
36 %		1.0	

Immune Assessment B Cell Subsets, B

CD19+ % of total Lymphocytes	SDL Reference Value 2.8–17.4	CD27+ IgM+ IgD+ % of CD19+ B cells	SDL Reference Value 1.7–29.3
11.0 %		8.6 %	
CD20+ % of total Lymphocytes	SDL Reference Value 3.2–16.8	CD27+ IgM- IgD- % of CD19+ B cells	SDL Reference Value 2.3–26.5
11.8 %		11.2 %	
CD27+ % of CD19+ B cells	SDL Reference Value 6.3–52.8	CD27+ IgM+ IgD- % of CD19+ B cells	SDL Reference Value 0.0–5.3
22.4 %		1.4 %	

Performing Site Legend

Code	Laboratory	Address	Lab Director	CLIA Certificate
SDL	Mayo Clinic Laboratories - Rochester Superior Drive	3050 Superior Drive NW, Rochester MN 55905	Nikola Baumann Ph.D.	24D1040592

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IgM+ % of CD19+ B cells	SDL Reference Value 26.0–78.0	CD27+ IgM+ IgD-	SDL Reference Value 0.0–12.0
58.9 %		2.0 cells/mcL	
CD38+ IgM- % of CD19+ B cells	SDL Reference Value 4.1–42.2	IgM+	SDL Reference Value 37.0–327.0
23.8 %		86.2 cells/mcL	
CD38+ IgM+ % of CD19+ B cells	SDL Reference Value 1.2–50.7	CD38+ IgM-	SDL Reference Value 7.0–139.4
41.2 %		34.8 cells/mcL	
CD21+ % of CD19+ B cells	SDL Reference Value 92.1–99.6	CD38+ IgM+	SDL Reference Value 2.0–139.4
99.5 %		60.3 cells/mcL	
CD21- % of CD19+ B cells	SDL Reference Value 0.2–8.6	CD21+	SDL Reference Value 85.0–533.0
0.5 %		145.6 cells/mcL	
CD19+	SDL Reference Value 90.0–539.0	CD21-	SDL Reference Value 0.3–22.0
146.3 cells/mcL		0.7 cells/mcL	
CD20+	SDL Reference Value 95.0–580.8	Interpretation	1 SDL
156.9 cells/mcL		Normal T, B, and NK subsets in whole blood. Quantitative B cell subset immunophenotyping is normal. Unable to provide further interpretation without clinical information. Clinical correlation recommended.	
CD27+	SDL Reference Value 18.0–145.0	Reviewed by: AUSTIN REINICKE	
32.8 cells/mcL		ADDITIONAL INFORMATION	
CD27+ IgM+ IgD+	SDL Reference Value 4.0–85.0	This assay is performed using peripheral blood mononuclear cells (PBMC) isolated from whole blood. CD19 percentage and absolute results should not be directly compared to the CD19 results from the T and B cell Surface Markers AG assay using whole blood, because cells are lost during the PBMC isolation process.	
12.6 cells/mcL			
CD27+ IgM- IgD-	SDL Reference Value 7.0–61.0		
16.4 cells/mcL		Received: 23 Sep 2024 11:37	Reported: 23 Sep 2024 11:42

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Test
Environment
LTCSEQ Template

Laboratory Notes

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This test was developed using an analyte specific reagent. Its performance characteristics were determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

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