

T- and B-Cell Quantitation and Lymphocyte Proliferation to Antigens Panel

Patient ID SA00056605	Patient Name SAMPLEREPOR, TCAPF	Birth Date 1966-06-10	Gender F	Age 46
Order Number SA00056605	Client Order Number SA00056605	Ordering Physician Client, Client	Report Notes	
Account Information C7028846 DLMP Rochester		Collected 15 Apr 2013 13:00		

T-Cell with Antigen Panel

T- and B-Cell QN by Flow Cytometry

CD45 Lymph Count, Flow

0.90 thou/mcL

 MCR
 Reference Value
 0.82–2.84

% CD3 (T Cells)

68 %

 MCR
 Reference Value
 58–86

% CD19 (B Cells)

15 %

 MCR
 Reference Value
 6–24

% CD16+CD56 (NK cells)

16 %

 MCR
 Reference Value
 4–28

% CD4 (Helper Cells)

50 %

 MCR
 Reference Value
 32–64

% CD8 (Supp'r Cells)

16 %

 MCR
 Reference Value
 13–40

CD3 (T Cells)

615 cells/mcL

 MCR
 Reference Value
 550–2202

CD19 (B Cells)

133 cells/mcL

 MCR
 Reference Value
 70–409

CD16+CD56 (NK cells)

144 cells/mcL

 MCR
 Reference Value
 59–513

CD4 (Helper Cells)

453 cells/mcL

 MCR
 Reference Value
 365–1437

CD8 (Supp'r Cells)

149 cells/mcL

 MCR
 Reference Value
 145–846

H/S Ratio

3.0

 MCR
 Reference Value
 ≥0.9

Lymphocyte Proliferation, Antigens

Interpretation

MCR

Normal and robust proliferative responses to antigens - Candida (CA) and Tetanus toxoid (TT).

ADDITIONAL INFORMATION

Data are expressed as % proliferating cells of total specific cell population. The % Day 0 viability of the sample was determined using a flow cytometry assay which includes individual assessment of viable, apoptotic and dead cells. This method differs from the commonly used method of trypan blue dye exclusion which only identifies dead cells, and counts apoptotic cells along with the viable cells, resulting in an apparent higher cell viability. However, apoptotic cells do not contribute to cell

proliferation and therefore accurate measurement of only viable cells provides meaningful information on the cells involved in stimulation and proliferative response. Strongly recommend using "critical ambient shipping boxes" available through Mayo Medical Laboratories (MML) inventory to ensure optimal transport of critical samples used for functional cellular assays.

Viab of Lymphs at Day 0

85.3 %

 MCR
 Reference Value
 ≥75.0

Performing Site Legend

Code	Laboratory	Address
MCR	Mayo Clinic Dept. of Lab Med and Pathology	200 First Street SW, Rochester, MN 55905



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Max Prolif of CA as % CD45

11.3 %

MCR
Reference Value
≥5.7

Max Prolif of TT as % CD3

9.3 %

MCR
Reference Value
≥3.3

Max Prolif of CA as % CD3

12.3 %

MCR
Reference Value
≥3.0

Antigen Comment

Lymphocyte proliferative responses are affected by sample age. Samples received between 24–48 hours post-collection can show significant decrease in lymphocyte proliferative responses. Caution should be used when interpreting the results and clinical correlation is strongly recommended. Suggest repeat testing when clinically appropriate.

MCR

Max Prolif of TT as % CD45

7.8 %

MCR
Reference Value
≥5.2

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Reported: 16 Apr 2013 11:31

Laboratory Notes

- 1 Analyte Specific Reagent: This test was developed and its performance characteristics determined by Mayo Clinic. It has not been cleared or approved by the U.S. Food and Drug Administration.

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