

Patient ID SA00060744	Patient Name SAMPLEREP, LPA3P	Birth Date 1966-06-10	Gender F	Age 47
Order Number SA00060744	Client Order Number SA00060744	Ordering Physician Client, Client	Report Notes	
Account Information C7028846 DLMP Rochester		Collected 14 Aug 2013 13:00		

Lymphocyte Proliferation, aCD3

Viab of Lymphs at Day 0


74 %
 Low

MCR

 Reference Value
 ≥75

Unable to provide further interpretation without clinical information.

Reviewed by: Naren Hulsing 2013.08.15 10:00:44

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.

This assay measures lymphocyte proliferative responses to an anti-CD3 panel. The stimulants include soluble anti-CD3 alone (3 titrations), soluble anti-CD3 + anti-CD28 (3 titrations) and soluble anti-CD3+ exogenous IL-2 (3 titrations). The maximal response to each stimulant is reported and includes % proliferation to both CD45+ total lymphocytes (equivalent of the response in the tritiated thymidine assay) and CD3+ T cells. Delta % proliferation is reported for each value after subtraction from media control.

aCD3 Comment


MCR

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. Mononuclear cell preparation contains excess neutrophils. Consider repeating this test if clinically indicated.

Received: 15 Aug 2013 21:46

Reported: 15 Aug 2013 22:00

Max Prolif, soluble aCD3 as % CD45


18.0 %
 Low

MCR

 Reference Value
 ≥19.4


Max Prolif, soluble aCD3 as % CD3


14.0 %
 Low

MCR

 Reference Value
 ≥20.3


Max Prolif, soluble aCD28 as % CD45


26.0 %
 Low

MCR

 Reference Value
 ≥37.5


Max Prolif, soluble aCD28 as % CD3


41.0 %
 Low

MCR

 Reference Value
 ≥44.6


Max Prolif, soluble IL2 as % CD45


36.0 %
 Low

MCR

 Reference Value
 ≥41.7

Max Prolif, soluble IL2 as % CD3


39.0 %
 Low

MCR

 Reference Value
 ≥46.2

Interpretation

1 MCR

Abnormal proliferation.

Clinical correlation recommended.

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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QA Environment

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.

Performing Site Legend

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