MAYO CLINIC
Mayo Medical Laboratories

Laboratory Service Report 1-800-533-1710

Patient Name	Patient ID	Age	Gender	Order #
TEST,IMPLEMENTATION TESTING	321	56	M	X100027910
Ordering Phys UNKNOWN,PROVIDER				**DOB** 05/23/1955
Client Order # X100027910	**Account Information**			**Report Notes**
Collected 04/11/2012 13:00	C7028846-DLMP ROCHESTER 3050 SUPERIOR DRIVE ROCHESTER,MN 55901			
Printed 04/24/2012 10:42				

Test	Flag	Results	Unit	Reference Value	Perform Site*
Plasma Cell Proliferation, Marrow			REPORTED 04/12/2012 10:55		
Monotypic Plasma Cells:		See Below		None detected.	MCR
Result: Monotypic kappa plasma cells present.					
Monotypic PC per Total Events		1.3	%		MCR
Monotypic Plasma Cells S-phase		7.7	%		MCR
Monotypic Plasma Cells DNA Index		1.10		0.95-1.05	MCR
Monotypic Plasma Cells DNA Ploidy		Hyperdiploid		Diploid	MCR
Polytypic PC per Total Events		0.1	%		MCR
Polytypic PC per All Plasma Cells		7.1	%		MCR
Final Diagnosis					MCR

Bone marrow, flow cytometric immunophenotyping:

1. Plasma cells express: monotypic kappa cytoplasmic immunoglobulin light chains, CD38 and CD138. They do not express: CD19 or CD45.

Comment:
Plasma cells, (monoclonal/monotypic and polyclonal/polytypic) are detected by immunoglobulin light chain restriction, surface immunophenotype, and DNA content. If present, the light chain expressed by the monotypic plasma cells is indicated. The percentage of clonal plasma cells estimated by flow cytometry is affected by specimen processing and antigen loss with specimen aging. Manual differential counting remains the accepted standard for determining the bone marrow plasma cell percentage.

The percentage of monotypic plasma cells in S-phase of the cell cycle is determined by quantitative DNA analysis. The DNA index is a calculated value. The presence of more than one value indicates the presence of cell populations with differing DNA contents within the monotypic plasma cells

Method:
Plasma cell analysis was performed with antibodies to the following antigens: CD19, CD38, CD45, CD138, kappa and lambda cytoplasmic immunoglobulin light chains and DAPI.

Reviewed by: Steven Bashynski 2012.04.12 10:54:41
Laboratory developed test.

* Performing Site:

MCR	Mayo Clinic Dpt of Lab Med & Pathology 200 First St SW Rochester, MN 55905	Lab Director:

* Report times for Mayo performed tests are CST/CDT