

**Reporting Title:** Plasma Cell Proliferation, Marrow**Performing Location:** Rochester**Ordering Guidance:**

This test can be ordered at diagnosis or follow-up of a plasma cell neoplasm (plasma cell proliferative disorder).

If CSMRT / mSMART Plasma Cell Proliferative Disorder, Pre-Analysis Cell Sorting, Bone Marrow or MPCDS / mSMART, Plasma Cell Proliferative Disorder, FISH, Bone Marrow is desired to be performed at Mayo, order MSMRT / Mayo Algorithmic Approach for Stratification of Myeloma and Risk-Adapted Therapy Report, Bone Marrow.

The Multiple Myeloma: Laboratory Screening algorithm will allow plasma cell fluorescence in situ hybridization (FISH) testing to be added, based on this test's flow cytometry results.

**Necessary Information:**

1. Include patient's disease state (untreated, treated, monoclonal gammopathy of undetermined significance, stable).
2. Indicate if patient is on anti-CD38 therapy.

**Specimen Requirements:**

Specimen Type: Redirected bone marrow

Preferred: Yellow top (ACD solution A or B)

Acceptable: Lavender top (EDTA) or green top (sodium heparin)

Specimen Volume: 4 mL

Specimen Stability Information: 3 days

**Specimen Minimum Volume:**

2 mL

**Forms:**

If not ordering electronically, complete, print, and send a Hematopathology/Cytogenetics Test Request (T726) with the specimen.

Specimen Type	Temperature	Time	Special Container
Bone Marrow	Ambient (preferred)		
	Refrigerated		

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
CK056	Monotypic Plasma Cells: <b>Also used by tests: MSMRD, MSMRT</b>	Alphanumeric		93362-2
CK057	Monotypic PC per Total Events <b>Also used by tests: MSMRD, MSMRT</b>	Alphanumeric	%	93021-4
CK058	Monotypic Plasma Cells S-phase <b>Also used by tests: MSMRT, MSMRD</b>	Alphanumeric	%	93361-4
CK059	Monotypic Plasma Cells DNA Index <b>Also used by tests: MSMRT, MSMRD</b>	Alphanumeric		93360-6
CK060	Monotypic Plasma Cells DNA Ploidy <b>Also used by tests: MSMRD, MSMRT</b>	Alphanumeric		93359-8
CK061	Polytypic PC per Total Events <b>Also used by tests: MSMRT, MSMRD</b>	Alphanumeric	%	93358-0
CK062	Polytypic PC per All Plasma Cells <b>Also used by tests: MSMRT, MSMRD</b>	Alphanumeric	%	93020-6
CK063	Final Diagnosis	Alphanumeric		50398-7

LOINC and CPT codes are provided by the performing laboratory.

**Supplemental Report:**

No

**CPT Code Information:**

88182-Flow cytometry, cell cycle or DNA analysis  
88184-Flow cytometry; first cell surface, cytoplasmic or nuclear marker  
88185 x 5-Flow cytometry; additional cell surface, cytoplasmic or nuclear marker (each)  
88187-Flow cytometry interpretation, 2 to 8 Markers (added as FCINT)

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**Reflex Tests:**

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
FCINT	Flow Cytometry Interp, 2-8 Markers			Yes	No (Bill Only)

**Reference Values:**

## Plasma Cell Clonality:

Normal bone marrow

No monotypic clonal plasma cells detected

## DNA Index:

Normal polytypic plasma cells

DNA index (G0/G1 cells): Diploid 0.95-1.05