MAYO CLINIC LABORATORIES

Reporting Title: T Cell Phenotyping, Advanced
Performing Location: Rochester

Ordering Guidance:

This assay provides quantitative information on various T-cell subsets in blood; it does not provide any information on the antigen-specific or otherwise functional state of the T cells.

To assess the overall functional state of T cells, order either LPMGF / Lymphocyte Proliferation to Mitogens, Blood or LPAGF / Lymphocyte Proliferation to Antigens, Blood (using Candida and tetanus antigens).

To assess cytomegalovirus (CMV)-specific immune competence, order CMVC8 / Cytomegalovirus (CMV) CD8 T-Cell Immune Competence, Quantitative Assessment by Flow Cytometry, Blood.

Shipping Instructions:

Specimens are required to be received in the laboratory weekdays and by 4 p.m. on Friday. Collect and package specimen as close to shipping time as possible.

It is recommended that specimens arrive within 24 hours of collection.

Samples arriving on the weekend and observed holidays may be canceled.

Necessary Information:

Ordering physician's name and phone number are required.

Specimen Requirements:

Container/Tube: Lavender top (EDTA)
Specimen Volume: 3 mL
Collection Instructions: Send whole blood specimen in original tube. Do not aliquot.
Additional Information: For serial monitoring, it is recommended that specimens are collected at the same time of day.

Specimen Minimum Volume:

1 mL

Specimen Type	Temperature	Time	Special Container
Whole Blood EDTA	Ambient	72 hours	PURPLE OR PINK TOP/EDTA

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
609282	CD4 (T Cells) **Also used by tests: TREGS**	Alphanumeric	cells/mcL	24467-3
609283	CD8 (T Cells)	Alphanumeric	cells/mcL	14135-8
29151	%CD4+CD45RA+ naive T cells	Unknown	% CD4	89360-2
29152	%CD4+CD62L+CD27+ naive T cells	Unknown	% CD4	89340-4
29153	%CD8+CD45RA+ naive T cells	Unknown	% CD8	82744-4
29154	%CD8+CD62L+CD27+naive T cells	Unknown	% CD8	89339-6
29155	%CD4+CD45RO+ memory T cells	Unknown	% CD4	89362-8
29156	%CD4+CD62L+CD27+CD45RO+ (Tcm)	Unknown	% CD4	89338-8
29157	%CD4+CD62L-CD27-CD45RO+ (Tem)	Unknown	% CD4	89337-0
29158	%CD8+CD45RO+ memory T cells	Unknown	% CD8	89336-2
29159	%CD8+CD62L+CD27+CD45RO+ (Tcm)	Unknown	% CD8	89335-4
29160	%CD8+CD62L-CD27-CD45RO+ (Tem)	Unknown	% CD8	89334-7
29161	%Activated CD4 T cells (4+CD25+)	Unknown	% CD4	89431-1
29162	%CD4+HLA DR+CD28+ T cells	Unknown	% CD4	89333-9
29163	%CD8+HLA DR+CD28+ T cells	Unknown	% CD8	89332-1
29164	CD4+CD45RA+ naive T cells	Alphanumeric	cells/mcL	26759-1
29165	CD4+CD62L+CD27+ naive T cells	Alphanumeric	cells/mcL	89331-3
29166	CD8+CD45RA+ naive T cells	Alphanumeric	cells/mcL	82743-6
29167	CD8+CD62L+CD27+naive T cells	Alphanumeric	cells/mcL	89330-5
29168	CD4+CD45RO+ memory T cells	Alphanumeric	cells/mcL	85792-0
29169	CD4+CD62L+CD27+CD45RO+ (Tcm)	Alphanumeric	cells/mcL	89329-7
29170	CD4+CD62L-CD27-CD45RO+ (Tem)	Alphanumeric	cells/mcL	89328-9
29171	CD8+CD45RO+ memory T cells	Alphanumeric	cells/mcL	85790-4
29172	CD8+CD62L+CD27+CD45RO+ (Tcm)	Alphanumeric	cells/mcL	96492-4
29173	CD8+CD62L-CD27- CD45RO+ (Tem)	Alphanumeric	cells/mcL	89327-1
29174	Activated CD4 T cells (4+CD25+)	Alphanumeric	cells/mcL	26982-9
29175	CD4+HLA DR+CD28+ T cells	Alphanumeric	cells/mcL	89326-3
29176	CD8+HLA DR+CD28+ T cells	Alphanumeric	cells/mcL	89325-5

Result ID	Reporting Name	Type	Unit	LOINC®
29178	Interpretation **Also used by tests: CD4RT**	Alphanumeric		69052-9

LOINC and CPT codes are provided by the performing laboratory.

Supplemental Report:
No

CPT Code Information:

86356 x 7

Reference Values:

The appropriate age-related reference values will be provided on the report.