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**Reporting Title:** Immune Assessment B Cell Subsets, B

**Performing Location:** Mayo Clinic Laboratories - Rochester Superior Drive

**Ordering Guidance:**

The IABCS is a panel test. This test requires two separate whole blood EDTA specimens at two different transport temperatures: one ambient and one refrigerate.

The TBBS / Quantitative Lymphocyte Subsets: T, B, and Natural Killer (NK) Cells, Blood is automatically performed, a separate order is **not** required.

If only an ambient EDTA specimen is received, only the TBBS / Quantitative Lymphocyte Subsets: T, B, and Natural Killer (NK) Cells, Blood will be performed. If only a refrigerate EDTA sample is received, this test will be canceled and converted to RBCS / Relative B-Cell Subset Analysis Percentage, Blood, which provides the relative B-cell subset values without quantitation.

This test is a screening test and further analyses will be required to complete a diagnostic workup for hyper-IgM (XHIM / X-Linked Hyper IgM Syndrome, Blood and CD40 / B-Cell CD40 Expression by Flow Cytometry, Blood).

**Shipping Instructions:**

**Testing is performed Monday through Friday. The test may be canceled if specimens are not received in the laboratory by Friday at 8 p.m. Central time.**

**Samples arriving on weekends and observed holidays may be canceled.**

Collect and package specimens as close to shipping time as possible.

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

**Necessary Information:**

- 1. Date of collection is required.**
- 2. Ordering healthcare professional name and phone number are required.**

**Specimen Requirements:**

**Two separate EDTA whole blood specimens are required: 1 refrigerate and 1 ambient transport temperature.**

For serial monitoring, it is recommended that specimens are collected at the same time of day.

**Specimen Type:** Whole blood for TBBS / Quantitative Lymphocyte Subsets: T, B, and Natural Killer (NK) Cells, Blood

**Container/Tube:** 4 mL Lavender top (EDTA)

**Specimen Volume:** 3 mL

**Collection Instructions:**

- 1. Send whole blood specimen in original tube. Do not aliquot.**
- 2. Label specimen as TBBS.**
- 3. Ship ambient.**

**Specimen Stability Information:** Ambient <52 hours

**Specimen Type:** Whole blood for IABC / B-Cell Phenotyping Screen for Immunodeficiency and Immune Competence Assessment, Blood

**Container/Tube:** Lavender top (EDTA)

**Specimen Volume:**

< or =14 years: 4 mL

>14 years: 10 mL

**Collection Instructions:**

1. Send whole blood specimen in original tube. **Do not aliquot.**
2. Label specimen IABC.
3. Ship refrigerate.

**Specimen Stability Information:** Refrigerated <48 hours

Specimen Type	Temperature	Time	Special Container
Whole Blood EDTA	Varies	48 hours	PURPLE OR PINK TOP/EDTA

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
30300	CD27+ IgM+ IgD+ % of CD19+ B cells	Unknown	%	89352-9
30304	CD27+ IgM+ IgD- % of CD19+ B cells	Unknown	%	89348-7
30308	CD38+ IgM- % of CD19+ B cells	Unknown	%	89344-6
30310	CD38+ IgM+ % of CD19+ B cells	Unknown	%	89341-2
30315	CD21-	Alphanumeric	cells/mcL	89354-5
30301	CD27+ IgM+ IgD+	Alphanumeric	cells/mcL	89351-1
30303	CD27+ IgM- IgD-	Alphanumeric	cells/mcL	89349-5
30311	CD38+ IgM+	Alphanumeric	cells/mcL	89357-8
30297	CD19+	Alphanumeric	cells/mcL	8116-6
30313	CD21+	Alphanumeric	cells/mcL	25164-5
30299	CD27+	Alphanumeric	cells/mcL	89353-7
30309	CD38+ IgM-	Alphanumeric	cells/mcL	89343-8
30307	IgM+	Alphanumeric	cells/mcL	89345-3
30296	CD19+ % of total Lymphocytes	Unknown	%	8117-4
29095	CD20+	Alphanumeric	cells/mcL	9558-8
29094	CD20+ % of total Lymphocytes	Unknown	%	8119-0
30314	CD21- % of CD19+ B cells	Unknown	%	89355-2
30312	CD21+ % of CD19+ B cells	Unknown	%	89356-0
30305	CD27+ IgM+ IgD-	Alphanumeric	cells/mcL	89347-9
30298	CD27+ % of CD19+ B cells	Unknown	%	89358-6
30306	IgM+ % of CD19+ B cells	Unknown	%	89346-1

30302	CD27+ IgM- IgD- % of CD19+ B cells	Unknown	%	89350-3
30316	Interpretation	Alphanumeric		80722-2
4054	% CD16+CD56 (NK cells)	Unknown	%	8112-5
4055	CD16+CD56 (NK cells)	Unknown	cells/mcL	20402-4
3324	CD19 (B Cells)	Unknown	cells/mcL	8116-6
3322	CD3 (T Cells)	Unknown	cells/mcL	8122-4
3319	% CD4 (T Cells)	Unknown	%	8123-2
3325	CD4 (T Cells)	Unknown	cells/mcL	24467-3
3326	CD8 (T Cells)	Unknown	cells/mcL	14135-8
3327	4/8 Ratio	Unknown		54218-3
3321	CD45 Total Lymph Count	Unknown	thou/mcL	27071-0
3318	% CD19 (B Cells)	Unknown	%	8117-4
3316	% CD3 (T Cells)	Unknown	%	8124-0
3320	% CD8 (T Cells)	Unknown	%	8101-8
6657	Comment	Alphanumeric		80722-2
622952	% Sample Viability	Unknown	%	33193-4
622953	% Lymphocyte Viability	Unknown	%	33193-4

LOINC® and CPT codes are provided by the performing laboratory.

### Supplemental Report:

No

### Components:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
TBBS	QN Lymphocyte Subsets: T, B, and NK	1	86355	Yes	Yes
IABC	Immune Assessment B Cell Subsets, B	7	86356	Yes	No

### CPT Code Information:

86355-B cells, total count

86357-Natural killer (NK) cells, total count

86359-T cells, total count

86360-Absolute CD4/CD8 count with ratio

86356 x7 - Mononuclear cell antigen, quantitative

### Reference Values:

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