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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

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.