Reporting Title: Hyper IgM Panel, B
Performing Location: Rochester

Specimen Requirements:

It is recommended that specimens arrive within 24 hours of draw. Specimens are required to be received in the laboratory on weekdays and by 4 p.m. on Friday. No weekend processing. Draw and package specimens as close to shipping time as possible. Ship specimens overnight.

For serial monitoring, we recommend that specimen draws be performed at the same time of day.

Three separate specimens are required-2 containing EDTA and 1 containing sodium heparin.

Specimen Type: Blood for TBBS/9336 T- and B-Cell Quantitation by Flow Cytometry and CD40/89009 B-Cell CD40 Expression by Flow Cytometry, Blood
Container/Tube: Lavender top (EDTA)
Specimen Volume: 4 mL
Collection Instructions:
1. Send specimen in original tube. Do not aliquot.
2. Label specimen as blood for TBBS/9336 T- and B-Cell Quantitation by Flow Cytometry and CD40/89009 B-Cell CD40 Expression by Flow Cytometry, Blood.
Specimen Stability Information: Ambient <52 hours
Additional Information: Date of draw is required.

Specimen Type: Blood for IABC/87994 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 specimen in original tube. Do not aliquot.
2. Label specimen as blood for IABC/87994 B-Cell Phenotyping Screen for Immunodeficiency and Immune Competence Assessment, Blood.
Specimen Stability Information: Refrigerated 48 hours
Additional Information: Ordering physician's name and phone number are required.

Specimen Type: Blood for XHIM/82964 X-Linked Hyper IgM Syndrome, Blood
Container/Tube: Green top (sodium heparin)
Specimen Volume: 4 mL
Collection Instructions: Label specimen as blood for XHIM/82964 X-Linked Hyper IgM Syndrome, Blood.
Specimen Stability Information: Ambient 72 hours
Additional Information: Ordering physician's name and phone number are required.

Specimen Type	Temperature	Time

WB Sodium Heparin	Ambient	72 hours
Whole Blood EDTA	Varies	48 hours

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
9336	T-and B-Cell QN by Flow Cytometry(TBBS_) **Also used by tests: TBNY, TBBS**	Alphanumeric		In Process
3321	CD45 Lymph Count, Flow **Also used by tests: CD4NY, TBNY, TCD4, TBBS**	Numeric	thou/mcL	27071-0
3316	% CD3 (T Cells) **Also used by tests: TBNY, CD4NY, TCD4, TBBS**	Numeric	%	8124-0
3318	% CD19 (B Cells) **Also used by tests: TBNY, TBBS**	Numeric	%	8117-4
4054	% CD16+CD56 (NK cells) **Also used by tests: TBNY, TBBS**	Numeric	%	18267-5
3319	% CD4 (Helper Cells) **Also used by tests: CD4NY, TBNY, TCD4, TBBS**	Numeric	%	8123-2
3320	% CD8 (Supp'r Cells) **Also used by tests: CD4NY, TBNY, TCD4, TBBS**	Numeric	%	8101-8
3322	CD3 (T Cells) **Also used by tests: CD4NY, TBNY, TCD4, TBBS**	Numeric	cells/mcL	8122-4
3324	CD19 (B Cells) **Also used by tests: TBNY, TBBS**	Numeric	cells/mcL	8116-6
4055	CD16+CD56 (NK cells) **Also used by tests: TBNY, TBBS**	Numeric	cells/mcL	20402-4
3325	CD4 (Helper Cells) **Also used by tests: TBBS, TCD4, TBNY, CD4NY**	Numeric	cells/mcL	24467-3
3326	CD8 (Supp'r Cells) **Also used by tests: CD4NY, TCD4, TBNY, TBBS**	Numeric	cells/mcL	14135-8

Result ID	Reporting Name	Type	Unit	LOINC®
3327	H/S Ratio **Also used by tests: CD4NY, TCD4, TBNY, TBBS**	Numeric		54218-3
6657	Comment **Also used by tests: TBBS, TBNY**	Alphanumeric		48767-8
30296	CD19+ % of total Lymphocytes	Numeric	%	8117-4
29094	CD20+ % of total Lymphocytes	Numeric	%	8119-0
30298	CD27+ % of CD19+ B cells	Numeric	%	In Process
30300	CD27+ IgM+ IgD+ % of CD19+ B cells	Numeric	%	In Process
30302	CD27+ IgM- IgD- % of CD19+ B cells	Numeric	%	In Process
30304	CD27+ IgM+ IgD- % of CD19+ B cells	Numeric	%	In Process
30306	IgM+ % of CD19+ B cells	Numeric	%	In Process
30308	CD38+ IgM- % of CD19+ B cells	Numeric	%	In Process
30310	CD38+ IgM+ % of CD19+ B cells	Numeric	%	In Process
30312	CD21+ % of CD19+ B cells	Numeric	%	In Process
30314	CD21- % of CD19+ B cells	Numeric	%	In Process
30297	CD19+	Alphanumeric	cells/mcL	8116-6
29095	CD20+	Alphanumeric	cells/mcL	9558-8
30299	CD27+	Alphanumeric	cells/mcL	In Process
30301	CD27+ IgM+ IgD+	Alphanumeric	cells/mcL	In Process
30303	CD27+ IgM- IgD-	Alphanumeric	cells/mcL	In Process
30305	CD27+ IgM+ IgD-	Alphanumeric	cells/mcL	In Process
30307	IgM+	Alphanumeric	cells/mcL	In Process
30309	CD38+ IgM-	Alphanumeric	cells/mcL	In Process
30311	CD38+ IgM+	Alphanumeric	cells/mcL	In Process
30313	CD21+	Alphanumeric	cells/mcL	25164-5
30315	CD21-	Alphanumeric	cells/mcL	In Process
30316	Interpretation	Alphanumeric		69048-7
89009	CD40 by Flow, QL, B **Also used by tests: CD40**	Alphanumeric		In Process
82964	CD40 Ligand Expression **Also used by tests: XHIM**	Alphanumeric		In Process

Result ID	Reporting Name	Type	Unit	LOINC®
29040	CD40muIg (Function) **Also used by tests: XHIM**	Alphanumeric		In Process
23901	Interpretation **Also used by tests: XHIM**	Alphanumeric		69052-9

Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
Billing only	each additional marker	6	88185		
Billing only	Flow Cytometry, each cell	1	88184		
Billing only	Flow Cytometry first mark	1	88184		
Billing only	Each additional marker	7	88185		
Billing only	Absolute CD4/CD8 Count	1	86360		
Billing only	Natural killer cells	1	86357		
Billing only	B cells, total count	1	86355		
Billing only	T-cells total count	1	86359		
TBBS	T- and B-Cell QN by Flow Cytometry		Profile	Yes	Yes
IABC	Immune Assessment B Cell Subsets, B		Profile	Yes	No
CD40	CD40 by Flow, QL, B	1	88184	Yes	Yes
XHIM	X-Linked Hyper IgM Syndrome, B		Profile	Yes	Yes

Reference Values:

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