

HOTLINE: Effective August 17, 2020

2013805

Natural Killer Cell and Natural Killer T-Cell Panel

NK/NKT

Specimen Required: Collect: Lavender (EDTA), or Pink (K₂EDTA).

Specimen Preparation: Transport 4 mL whole blood. (Min: 1 mL)

Storage/Transport Temperature: CRITICAL ROOM TEMPERATURE

Remarks: Specimens must be analyzed within 48 hours of collection.

New York State Clients: Specimens must be analyzed within 30 hours of collection.

Unacceptable Conditions: Clotted or hemolyzed specimens

Stability (collection to initiation of testing): Room temperature: 48 hours; Refrigerated: Unacceptable; Frozen: Unacceptable

New York State Clients: Room Temperature: 30 hours; Refrigerated: Unacceptable; Frozen: Unacceptable

Reference Interval:

Effective August 17, 2020

Available Separately	Component	Reference Interval
No	Pct CD3-CD16-/+CD56br/dim(total NKcells)	5.0 – 32.5 %
No	Abs CD3-CD16-/+CD56br/dim(total NKcells)	91 - 593 cells/μL
No	Pct CD3-CD16+CD56dim(cytotoxic NK-cells)	47.0 – 94.5 %
No	Abs CD3-CD16+CD56dim(cytotoxic NK-cells)	51 - 482 cells/μL
No	Pct CD3-CD16-CD56br (cyto secreting NK)	0.7 – 6.3 %
No	Abs CD3-CD16-CD56br (cyto secreting NK)	2 - 16 cells/μL
No	Pct CD3+CD56+ (CD56 NKT-cells)	0.9 – 14.4 %
No	Abs CD3+CD56+ (CD56 NKT-cells)	20-349 cells/μL
No	Pct CD45+CD3+ (T-cells)	59.0 – 86.9 %
No	Abs CD45+CD3+ (T-cells)	654 - 2634 cells/μL
No	Pct CD45+CD3-(Non T-cells)	15.7 – 43.6 %
No	Abs CD45+CD3-(Non T-cells)	196 - 897 cells/μL
No	Natural Killer T-cell Panel Interp	See Note

Interpretive Data:

Natural killer (NK) cells are identified by the absence of CD3 and the expression of CD16 and/or CD56. NK cells are divided according to the expression of CD16 and CD56 into cytotoxic NK cells (CD3-CD16+CD56dim) that represents approximately 90 percent of NK cells, and cytokine-secreting or regulatory NK cells (CD3-CD16-CD56bright) that represents approximately 10 percent of NK cells. NK cells act against virally-infected cells and tumor cells and may be increased or decreased in various immunologic abnormalities. NK cells also have a role in the adaptive immune response through cytokine production. NK-like T-cells have properties of both T-cells and NK-cells, expressing both CD3 and NK-associated antigens.

The cytotoxic NK cells (CD3-CD16+CD56dim) and cytokine-secreting or regulatory NK cells (CD3-CD16-CD56bright) are reported as a percentage of the total NK cells. All other populations are reported as a percentage of the total lymphocytes.

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement A: aruplab.com/CS

CPT Code(s): 86356 x3; 86357; 86359

HOTLINE NOTE: There is a component change associated with this test.

Remove component 2013812, Pct CD3-CD57+ (CD57 NK-cells)

Remove component 2013813, Abs CD3-CD57+ (CD57 NK-cells)

Remove component 2013816, Pct CD3+CD57+ (CD57 NKT-cells)

Remove component 2013817, Abs CD3+CD57+ (CD57 NKT-cells)

There is a numeric map change associated with this test.

Change the numeric map for component 2013807, Abs CD3-CD16-/+CD56br/dim(total NKcells) from XXXXXX.X to XXXXXX.

Change the numeric map for component 2013809, Abs CD3-CD16+CD56dim(cytotoxic NK-cells) from XXXXXX.X to XXXXXX.

Change the numeric map for component 2013811, Abs CD3-CD16-CD56br (cyto secreting NK) from XXXXXX.X to XXXXXX.

Change the numeric map for component 2013815, Abs CD3+CD56+ (CD56 NKT-cells) from XXXXXX.X to XXXXXX.

Change the numeric map for component 2013819, Abs CD45+CD3+ (T-cells) from XXXXXX.X to XXXXXX.

Change the numeric map for component 2013821, Abs CD45+CD3- (Non T-cells) from XXXXXX.X to XXXXXX.