

LEUKOCYTE ENUMERATION MARKERS  
INDIVIDUAL MARKERS

## Lymphocyte Subset Reference Ranges

(Adult, Peripheral Blood)

The Adult Reference Range Values for CD3, CD4, CD8, CD19, NK, and NK-T Cells, and Double Positive, and Double Negative T Cells were established November 2017.

LYMPHOCYTE SUBSET	PERCENTAGE (%)	ABSOLUTE COUNT (cells/cmm)
CD3 (Total T Cells)	49 – 87	527 - 2846
CD4 (Helper T cells)	28 – 62	332 - 1642
CD8 (cytotoxic/suppressor T cells)	12 – 45	228 - 1315
CD19 (Total B cells)	7 – 29	78 - 899
CD16/56 (Total NK cells)	4 – 29	67 - 1134
Double Positive T cells	<3	<180
Double Negative T cells	<8	<180
NK-T cells	<11	<340
CD4/C8 Ratio	0.7 – 4.8	

The pediatric reference range values for CD3, CD4, CD8, CD16/56 and CD19 lymphocyte percentages and absolute counts were implemented in June 2011 and transferred from Shearer WT, et al: Lymphocyte subsets in healthy children from birth through 18 years: The Pediatric Aids Clinical Trials Group P1009 Study. JACI. 2003; 112(5):973-980. The pediatric reference range values for percentages and absolute counts of double positive and double negative T cells, NK-T cells and CD4/CD8 ratio could not be established at this time. The adult reference range, established by the AMCH Cellular Immunology Laboratory in November 2017, is provided as an approximate guideline.

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**MARKER PANELS**

<b>PANEL</b>	<b>COMPUTER CODE</b>	<b>PANEL COMPONENTS</b>
LYMPHOCYTE ENUMERATION PANELS:		
T-Cell Subset Panel	TCS2	CD3 CD4 CD8 CD45 Double Positive T Cells Double Negative T Cells CD4/CD8 Ratio
T&B-Cell Subset Panel	TBCS2	CD3 CD4 CD8 CD19 CD45 Double Positive T Cells Double Negative T Cells CD4/CD8 Ratio
T,B,&NK-Cell Subset Panel	TBNKC2	CD3 CD4 CD8 CD19 CD16/56 CD45 Double Positive T Cells Double Negative T Cells NK-T Cells CD4/CD8 Ratio