Lab Dept:	Flow and Immunology
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Test Name: CD4/CD8 PANEL, BLOOD

Lab Order Codes:	C48P
Synonyms:	Helper/Suppressor Ratio; T- cells; T-cell subsets; T-cell phenotyping
	See also: Immune Status Panel and Comprehensive Immune Status Panel
CPT Codes:	86359 – T cells, total count 86360 – T cells; absolute CD4 and CD8 count, including ratio
Test Includes:	CD4(CD3+) and CD8(CD3+) relative percentages, absolute values and a calculated Helper/Suppressor ratio.
Logistics	
Test Indications:	This is a minimal antibody panel to monitor immune status.
Lab Testing Sections:	Flow Cytometry
Phone Numbers:	MIN Lab: 612-813-6280
	STP Lab: 651-220-6550
Test Availability:	3 times weekly determined by volume. Transport collected specimen immediately to Flow Cytometry. Routine testing is not available on weekends or holidays. Therefore, specimens cannot be used if drawn the day before a 3 day weekend such as Memorial Day, Labor Day or major holiday that falls on a Monday or Friday.
Turnaround Time:	1 – 3 days
Special Instructions:	See <u>Test Availability</u>
Specimen	
Specimen Type:	Whole blood
Container:	Lavender top (EDTA) tube
Draw Volume:	2 mL blood in a 2 mL Lavender (EDTA) tube

Collection:	Routine venipuncture
Special Processing:	Keep sample at room temperature and forward promptly to the laboratory. Do not centrifuge, refrigerate, or freeze sample.
Patient Preparation:	None
Sample Rejection:	Specimens will not be processed that are clotted; hemolyzed; greater than 72 hours old; collected in the wrong tube type (0.5 mL in a 2 mL tube), or that have been held or handled at a temperature other than room temperature
Interpretive	
Reference Range:	Age-dependant reference ranges provided with results.
Critical Values:	N/A
Limitations:	Poor specimen quality will adversely affect the test results (see Specimen section).
	The single platform method is linear when the WBC count of the specimen is between 0.2 k/uL and 29.7 k/uL, and its lymphocyte concentration is between 0.1 k/uL and 9.0 k/uL.
Methodology:	Single-platform 4 color direct immunofluorescence method FDA approved for in-vitro diagnostic usage. Flow cytometric analysis based on CD45 gating strategy.
	In cases where the WBC count of the specimen exceeds the linearity limits of the single platform method, an alternative two-platform method will be used.
References:	Centers for Disease Control (2003) Guidelines for performing CD4+ T- cell determinations with CD45 Gating in persons with immunodeficiency virus (HIV). MMWR, 52 (No. RR-2): 1-18
	MultiTEST [™] IMK Kit Package Insert, Becton Dickinson Immunocytometry Systems, December 2000
Updates:	10/26/2016: Updated Draw Volume