



## Lymphocyte Subset Age Related Reference Ranges

Surface Marker	Age	Reference Range %	Reference Range Absolute /uL
CD3	0-6 days (cord blood)	38-88	1400-6800
	1 week-2 months	55-90	1900-8400
	2-5 months	49-97	2200-9200
	5-9 months	49-95	1400-11500
	9-15 months	56-87	2400-8300
	15-24 months	36-100	700-8800
	2-5 years	52-92	850-4300
	5-10 years	55-97	770-4000
	10-16 years	52-90	850-3200
	17-23 years	50-91	780-3000
	Adults	59-81	785-2630
CD3+CD4+	0-6 days (cord blood)	26-62	1000-4800
	1 week-2 months	39-69	1500-6000
	2-5 months	37-69	1600-6500
	5-9 months	27-81	1000-7200
	9-15 months	25-86	1300-7100
	15-24 months	16-91	400-7200
	2-5 years	25-66	500-2700
	5-10 years	26-61	400-2500
	10-16 years	20-65	400-2100
	17-23 years	28-64	500-2000
	Adults	38-65	510-1835
CD3+CD8+	0-6 days (cord blood)	5-37	200-2700
	1 week-2 months	7-35	300-2700
	2-5 months	6-41	300-3400
	5-9 months	10-35	200-5400
	9-15 months	7-58	400-4100
	15-24 months	7-40	200-2800
	2-5 years	9-49	200-1800
	5-10 years	13-47	200-1700
	10-16 years	14-40	300-1300
	17-23 years	12-40	200-1200
	Adults	10-37	120-930
NK Cells (CD3-CD16+CD56+)	0-6 days (cord blood)	8-62	500-3100
	1 week-2 months	3-23	140-1900
	2-5 months	2-20	97-1990
	5-9 months	2-36	68-3900
	9-15 months	1-64	71-3500
	15-24 months	1-96	55-4000
	2-5 years	2-25	61-510
	5-10 years	2-31	70-590
	10-16 years	4-51	92-1200
	17-23 years	5-49	100-1200
	Adults	5-25	105-675
CD19	0-6 days (cord blood)	3-30	140-2000
	1 week-2 months	3-60	180-3500
	2-5 months	8-33	520-2300
	5-9 months	4-54	130-6300
	9-15 months	3-77	110-7700
	15-24 months	8-45	160-3700
	2-5 years	8-39	180-1300
	5-10 years	4-33	100-800
	10-16 years	7-24	120-740
	17-23 years	4-28	64-820
	Adults	5-27	65-760



Surface Marker	Age	Reference Range %	Reference Range Absolute /uL
CD4:CD8 Ratio	0-6 days (cord blood) 1 week-2 months 2-5 months 5-9 months 9-15 months 15-24 months 2-5 years 5-10 years 10-16 years 17-23 years Adults	1.0-2.6 Ratio 1.3-6.3 Ratio 1.7-3.9 Ratio 1.6-3.8 Ratio 1.3-3.9 Ratio 0.9-3.7 Ratio 0.9-2.9 Ratio 0.9-2.6 Ratio 0.9-3.4 Ratio 0.8-3.9 Ratio 1.0-6.5 Ratio	None

LLS: Pediatric reference values taken from Scandinavian  
Journal of Immunology 2012; 75, 436-444.  
Adult ranges were developed in-lab at Legacy Lab Services.