

Table 1. Distribution of human cells in CD34⁺ cord blood cell-transplanted mice

Days post infection	Not infected				YU-2-infected				NL4-3-infected			
					15	15	22	23	15	15	22	23
Blood												
● CD45	75.9	37.2	12.4	5.3	18.7	4.8	3.5	29.3	5.3	4.9	5.2	43.1
* CD4	52.2	43.1	12.0	21.1	7.1	5.1	8.6	12.7	14.7	11.7	36.0	38.3
* CD8	31.2	44.2	8.2	8.3	6.5	3.4	2.9	9.5	8.1	5.2	20.9	46.7
* CD19	10.4	8.9	n.a.	n.a.	n.a.	n.a.	n.a.	62.6	n.a.	n.a.	n.a.	4.6
Bone marrow												
● CD45	89.9	45.7	20.2	4.9	52.5	38.3	22.1	22.0	8.4	34.4	1.4	82.0
* CD4	32.2	15.3	2.0	8.2	7.9	5.1	6.4	4.4	3.9	4.6	32.4	47.8
* CD8	34.7	5.6	0.7	1.3	0.2	0.3	3.2	1.7	0.6	0.1	27.0	25.1
* CD19	25.5	52.4	n.a.	n.a.	n.a.	n.a.	n.a.	59.1	n.a.	n.a.	n.a.	9.7
* CD34	n.a.	1.2	7.4	2.9	16.0	12.3	12.4	4.0	2.6	11.1	1.3	10.4
* CD123	n.a.	7.7	1.0	1.1	2.6	1.2	1.4	7.8	1.5	1.4	2.6	1.3
* CD11c	n.a.	n.a.	n.a.	2.9	8.6	4.4	8.1	n.a.	3.2	5.1	27.8	n.a.
Spleen												
● CD45	93.2	55.8	28.0	24.0	27.6	17.1	22.5	26.0	22.2	19.0	6.9	10.1
* CD4	40.6	22.0	4.8	7.1	4.8	1.4	1.7	6.8	5.5	3.5	12.0	32.9
* CD8	19.2	30.2	4.8	5.3	4.0	1.0	1.8	5.3	4.7	2.4	21.5	50.0
* CD19	32.3	36.7	n.a.	n.a.	n.a.	n.a.	n.a.	73.2	n.a.	n.a.	n.a.	8.5
* CD14	0.2	2.5	n.a.	n.a.	n.a.	n.a.	n.a.	5.4	n.a.	n.a.	n.a.	1.0
* CD123	<0.1	<0.1	0.8	0.3	0.5	0.8	0.4	1.0	0.5	0.6	1.6	<0.1
* CD11c	6.9	6.7	1.4	1.6	3.6	0.8	1.1	7.1	1.6	1.1	6.7	6.2
Lymph node												
● CD45	94.8	88.7	81.8	74.8	91.0	60.5	71.7	86.6	86.8	74.4	66.6	89.7
* CD4	75.5	39.5	30.3	31.2	27.7	42.1	36.3	29.3	44.1	38.6	7.3	6.3
* CD8	n.a.	n.a.	33.3	32.8	33.7	30.9	14.4	n.a.	24.7	28.8	43.7	n.a.
* CD123	1.5	3.2	n.a.	n.a.	n.a.	n.a.	n.a.	0.2	n.a.	n.a.	n.a.	7.1
Thymus												
● CD45	92.3	82.5	95.7	94.9	94.1	98.2	93.6	98.1	99.0	97.3	94.4	87.4
* CD4 single pos.	n.a.	n.a.	21.0	44.2	26.0	13.9	42.1	n.a.	33.3	11.5	44.7	n.a.
* CD8 single pos.	n.a.	n.a.	18.7	14.3	31.4	6.8	13.1	n.a.	4.1	8.4	32.4	n.a.
* double neg.	n.a.	n.a.	16.1	9.3	19.9	5.5	6.6	n.a.	3.7	10.4	8.8	n.a.
* double pos.	n.a.	n.a.	44.2	32.2	22.7	73.8	38.2	n.a.	58.9	69.7	14.1	n.a.
Liver												
● CD45	n.a.	n.a.	67.1	36.6	77.6	33.7	26.5	n.a.	48.2	41.5	31.4	n.a.
* CD4	n.a.	n.a.	30.2	28.7	35.4	16.9	25.2	n.a.	22.8	27.0	17.9	n.a.
* CD8	n.a.	n.a.	9.8	9.3	8.1	3.1	3.1	n.a.	5.9	6.1	30.9	n.a.
* CD123	n.a.	n.a.	4.8	3.6	3.5	5.8	8.0	n.a.	2.3	5.3	0.7	n.a.
* CD11c	n.a.	n.a.	8.6	11.1	38.9	9.3	24.9	n.a.	11.6	15.5	5.0	n.a.

● Percentage (%) human CD45 positive cells of all viable mononucleated cells

* Percentage (%) respective cells of human CD45 positive cells

n.a., not assessed. Data show distribution of human cell engraftment in representative mice (mean age, 16.6 weeks; range, 14.6-21.9 weeks) as assessed by flow cytometry.