

**Supplementary table 3 : Percentage of missed LAPs per institute, categorized according to sub-type and study phase**

LAP*	Phase#	Institute 1		Institute 2		Institute 3		Institute 4		Institute 5	
		Missed	(%)	Missed	(%)	Missed	(%)	Missed	(%)	Missed	(%)
Cross-lineage expression CD7	1	1/11	(9.1%)	0/9	(0%)	0/11	(0%)	1/10	(10%)	2/6	(33.3%)
	2	0/15	(0%)	0/15	(0%)	3/15	(20%)	0/14	(0%)	4/12	(33.3%)
CD22	1										
	2	0/6	(0%)	1/6	(16.7%)	3/6	(50%)	1/6	(16.7%)	1/5	(20%)
CD56	1	0/1	(0%)	1/1	(100%)	1/1	(100%)	1/1	(100%)	0/1	(0%)
	2	0/4	(0%)	0/4	(0%)	1/4	(25%)	1/4	(25%)	1/3	(33.3%)
Asynchronous expression CD15	1	0/9	(0%)	5/7	(71.4%)	4/9	(44.4%)	7/9	(77.8%)	4/5	(80%)
	2	0/10	(0%)	8/10	(80%)	3/10	(30%)	5/10	(50%)	2/7	(28.6%)
CD36	1	n.e.		n.e.		n.e.		n.e.		n.e.	
	2	0/6	(0%)	1/6	(16.7%)	4/6	(66.7%)	5/6	(83.3%)	4/6	(66.7%)
CD11b	1	0/3	(0%)	2/2	(100%)	3/3	(100%)	2/2	(100%)	3/3	(100%)
	2	0/2	(0%)	1/2	(50%)	2/2	(100%)	2/2	(100%)	1/2	(50%)
CD13neg	1	1/4	(0%)	3/4	(75%)	4/4	(100%)	4/4	(100%)	2/2	(100%)
	2	0/5	(0%)	1/5	(20%)	2/5	(40%)	2/5	(40%)	2/5	(40%)
CD133+CD34neg	1	1/6	(16.7%)	3/6	(50%)	3/6	(50%)	3/6	(50%)	2/5	(40%)
	2	0/8	(0%)	4/8	(50%)	1/8	(12.5%)	3/6	(50%)	0/5	(0%)
CD15negHLADRneg	1										
	2	0/4	(0%)	3/4	(75%)	1/4	(25%)	1/4	(25%)	0/2	(0%)
CD33neg	1	0/3	(0%)	1/2	(50%)	3/3	(100%)	2/3	(66.7%)		
	2	0/4	(0%)	2/4	(50%)	0/4	(0%)	0/4	(0%)	0/3	(0%)
HLADRneg	1	0/5	(0%)	1/5	(20%)	1/5	(20%)	3/5	(60%)	0/2	(0%)
	2	0/3	(0%)	0/3	(0%)	1/3	(33.3%)	0/3	(0%)	0/2	(0%)
Antigen overexpression HLADR++	1	0/1	(0%)			1/1	(100%)	1/1	(100%)	0/1	(0%)
	2	0/3	(0%)	2/3	(66.7%)	2/3	(66.7%)	2/3	(66.7%)	2/2	(100%)
CD13++	1										
	2	2/4	(50%)	0/4	(0%)	3/4	(75%)	4/4	(100%)	1/1	(100%)
LAP without immature markers CD13neg	1	1/5	(20%)	0/4	(0%)	3/5	(60%)	5/5	(100%)	1/1	(100%)
	2	0/2	(0%)	0/2	(0%)	1/2	(50%)	2/2	(100%)	1/2	(50%)

\* All LAPs except "LAP without immature markers" contained a primitive marker  
# Phase1: learning phase; phase 2: test phase