

Case #	ALK	Gender	Age	Stage	Nuclear p52				p-STAT3			
					Intensity	Percentage (%)	Percentage Stage (0%=0; <5%=1; >5%, <10%=2; >10%, <25%=3; >25%=4)	H score: intensity X percentage stage	Intensity	Percentage (%)	Percentage Stage (0%=0; <10%=1; >10%, <50%=2; >50%, <75%=3; >75%=4)	H score: intensity X percentage stage
#1	ALK -	F	50	N/A	3	40%	4	12	3	15%	2	6
#2	ALK -	M	49	IV	3	70%	4	12	3	15%	2	6
#3	ALK -	F	64	N/A	2	25%	3	6	2	75%	3	6
#4	ALK -	M	75	IV	2	25%	3	6	2	30%	2	4
#5	ALK -	F	59	II-A	2	20%	3	6	2	10%	1	2
#6	ALK -	M	74	IV-AE	1	40%	4	4	2	75%	3	6
#7	ALK -	F	26	N/A	1	30%	4	4	2	10%	1	2
#8	ALK -	M	46	IV	1	70%	4	4	2	15%	2	2
#9	ALK -	M	36	IV	1	15%	3	3	2	5%	1	2
#10	ALK -	M	60	IV-A	1	15%	3	3	2	5%	1	2
#11	ALK -	M	49	IV	1	20%	3	3	2	5%	1	2
#12	ALK -	M	52	II-A	2	5%	1	2	2	30%	2	4
#13	ALK -	F	61	II-A	2	5%	1	2	2	10%	1	2
#14	ALK -	M	46	IV	2	5%	1	2	1	2%	1	1
#15	ALK -	M	53	II-A	2	5%	1	2	1	10%	1	1
#16	ALK -	M	25	II-B	1	5%	1	1	1	60%	3	3
#17	ALK -	M	52	II-A	1	5%	1	1	1	10%	1	1
#18	ALK+	M	33	III-EA	2	40%	4	8	3	90%	4	12
#19	ALK+	F	7	II	2	15%	3	6	3	80%	4	12
#20	ALK+	F	39	II-B	2	20%	3	6	2	85%	4	8
#21	ALK+	F	39	II-B	2	15%	3	6	2	60%	3	6

#22	ALK+	M	23	III-B	1	30%	4	4	2	95%	4	8
#23	ALK+	M	17	IV-A	2	10%	2	4	2	60%	3	6
#24	ALK+	M	58	II-A	2	10%	2	4	2	40%	2	4
#25	ALK+	F	10	III-B	2	10%	2	4	1	60%	3	3
#26	ALK+	M	15	IV	2	10%	2	4	2	15%	2	4
#27	ALK+	F	36	N/A	2	5%	2	4	2	50%	2	4
#28	ALK+	M	18	II	2	10%	2	4	2	50%	2	4
#29	ALK+	M	38	III-A	1	15%	3	3	3	70%	3	9
#30	ALK+	F	21	IV	1	10%	2	2	2	50%	2	4
#31	ALK+	M	27	N/A	2	2%	1	2	2	10%	1	2
#32	ALK+	M	36	IV	1	1%	1	1	2	70%	3	6
#33	ALK+	M	20	IV-A	0	0%	0	0	2	70%	3	6
#34	ALK+	F	14	IV	0	0%	0	0	1	20%	2	2
#35	ALK+	F	20	I-A	0	0%	0	0	2	50%	2	4

**Supplementary Table 1: IHC score (H score) of nuclear p52 and p-STAT3 in primary ALCL cases.**

Intensity of staining was evaluated according to the following scale: 0, no staining; 1, weak staining; 2, moderate staining; and 3, strong staining. The percentage score was determined according to the proportion of tumor cells found to express nuclear p52 (0%=0; <5%=1; >5, <10=2; >10, <25=3; >25=4) or p-STAT3 (0%=0; <10%=1; >10, <50=2; >50, <75=3; >75=4), and then multiplied by the staining intensity score to obtain a final semi quantitative H score.