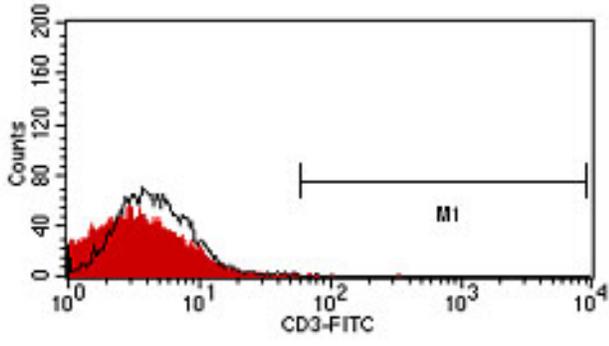
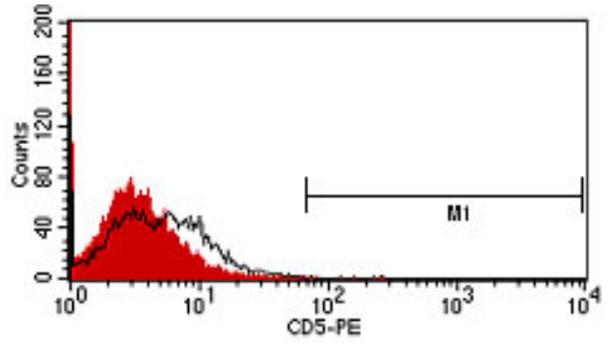


ATCC® CRL-3004™ (REC-1)

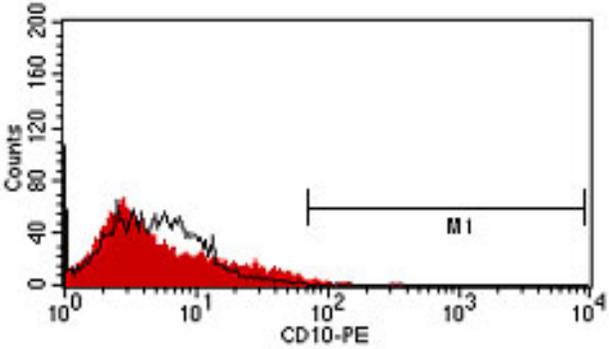
Biomarkers - Flow cytometry



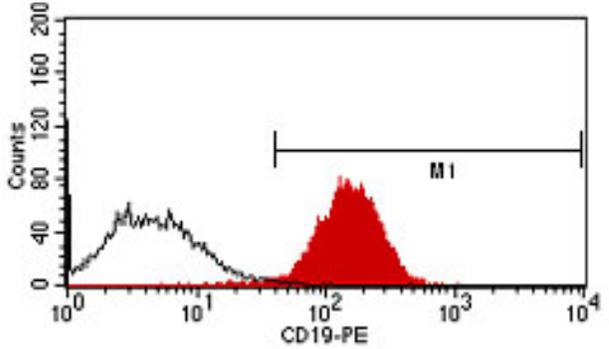
CD3 expression: 0%



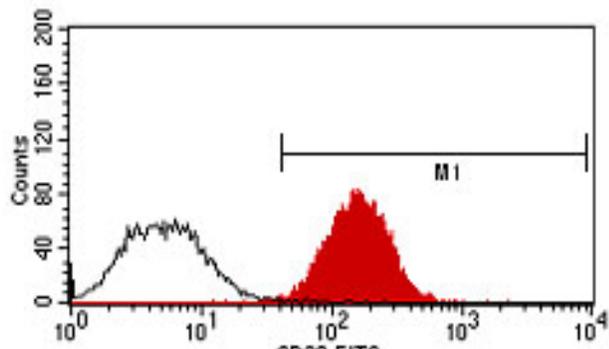
CD5 expression: 0%



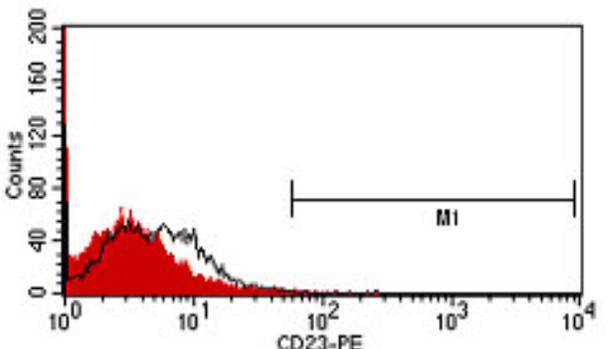
CD10 expression: 0%



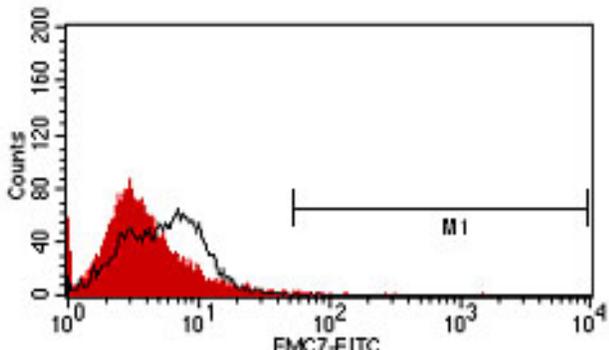
CD19 expression: 99%



CD20 expression: 99%

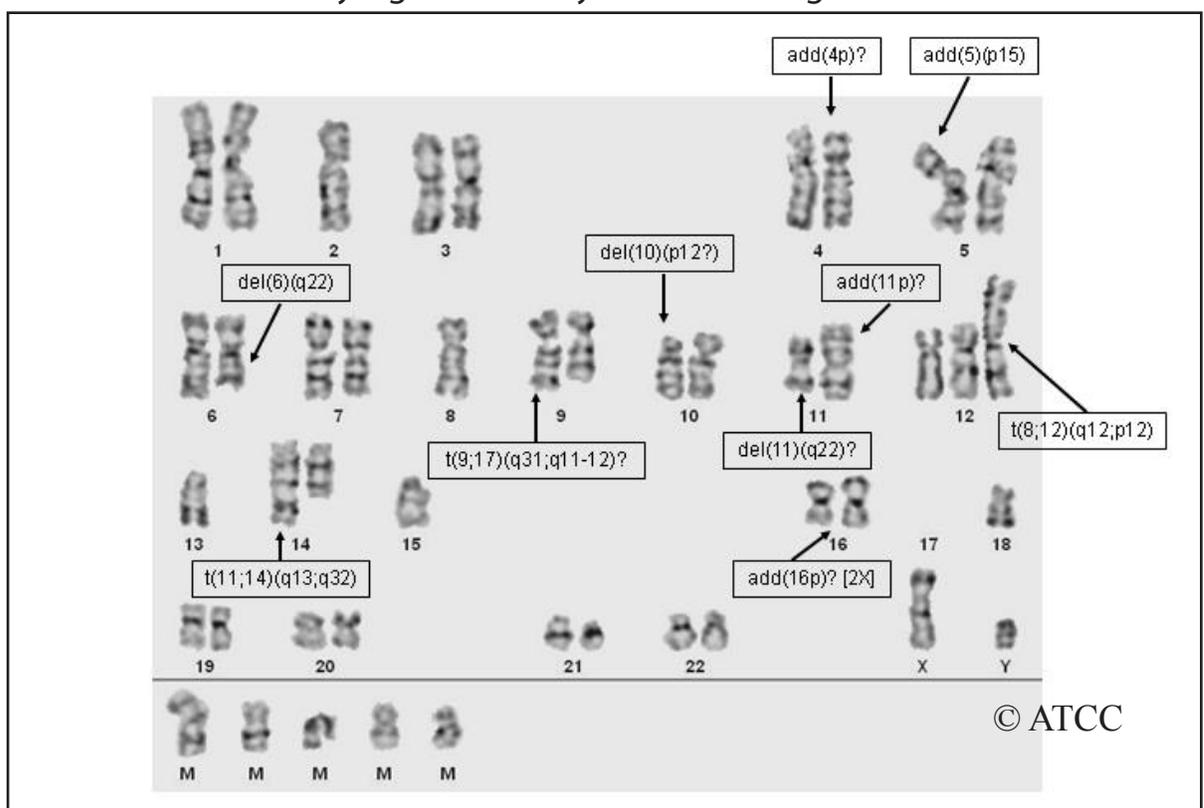


CD23 expression: 0%



FMC7 expression: 0%

Cytogenetic analysis - G-banding



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Modal chromosome number: 45

This is a near-diploid cell line of male origin with a modal chromosome number of 45 and a polyploidy rate of 10%. The karyotype is highly rearranged with most of the cells containing the t(11;14)(q13;q32) common to mantle cell lymphoma. Also, there are approximately 5-6 derivative chromosomes in the karyology that have been described by others.

ATCC® Number	Designation	Biomarkers							Cytogenetics
		CD3	CD5	CD10	CD19	CD20	CD23	FMC7	
CRL-3004™	REC-1	-	-	-	+	+	-	-	t(11;14) translocation present