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**The utility of mRNA analysis in defining SOX11 expression levels in mantle cell lymphoma and reactive lymph nodes**

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Supplementary data

Supplementary Table 1. Analysis of SOX11 protein expression by IHC using two different antibodies and by qPCR.

MCL case	HPA000536*	MRQ-58	SOX11 LOG2 RFI
MCL-9	+	+	12,86
MCL-68	+	+	12,29
41	+	+	9,74
MCL-46	-	+	9,50
102	+	+	9,20
B1	+	+	9,06
B2	+	+	9,05
MCL-2	-	+	8,03
92	-	+	7,22
MCL-12	-	+	7,08
MCL-85	+	+	7,06
MCL-53	+	+	6,93
MCL-89	+	+	6,90
MCL-100	+	+	6,65
MCL-38	+	+	6,52
MCL-66	+	+	6,25
MCL-90	-	-	5,89
MCL-54	-	+	5,38
15	-	-	3,83
MCL-48	-	-	3,39
264	-	-	2,83
MCL-52	-	-	2,51
270	-	-	1,82
274	-	-	-6,64
32	-	+	n.d.
101	-	-	n.d.
104	-	+	n.d.

\*IHC was semiautomated and performed on a Bond Max robot by using the Vision Biosystems TM bond Polymer Refine, and Bond DAB Enhance, as recommended by the manufacturer (Leica Microsystems, Wetzlar, Germany). The polyclonal SOX11 antibody HPA000536 (Atlas Antibodies AB) or the monoclonal antibody MRQ-58 (Cell Marque; cat. no. 382M ) were used with Bond primary Antibody Diluent (AR 9352 Vision Biosystems, Newcastle, UK).

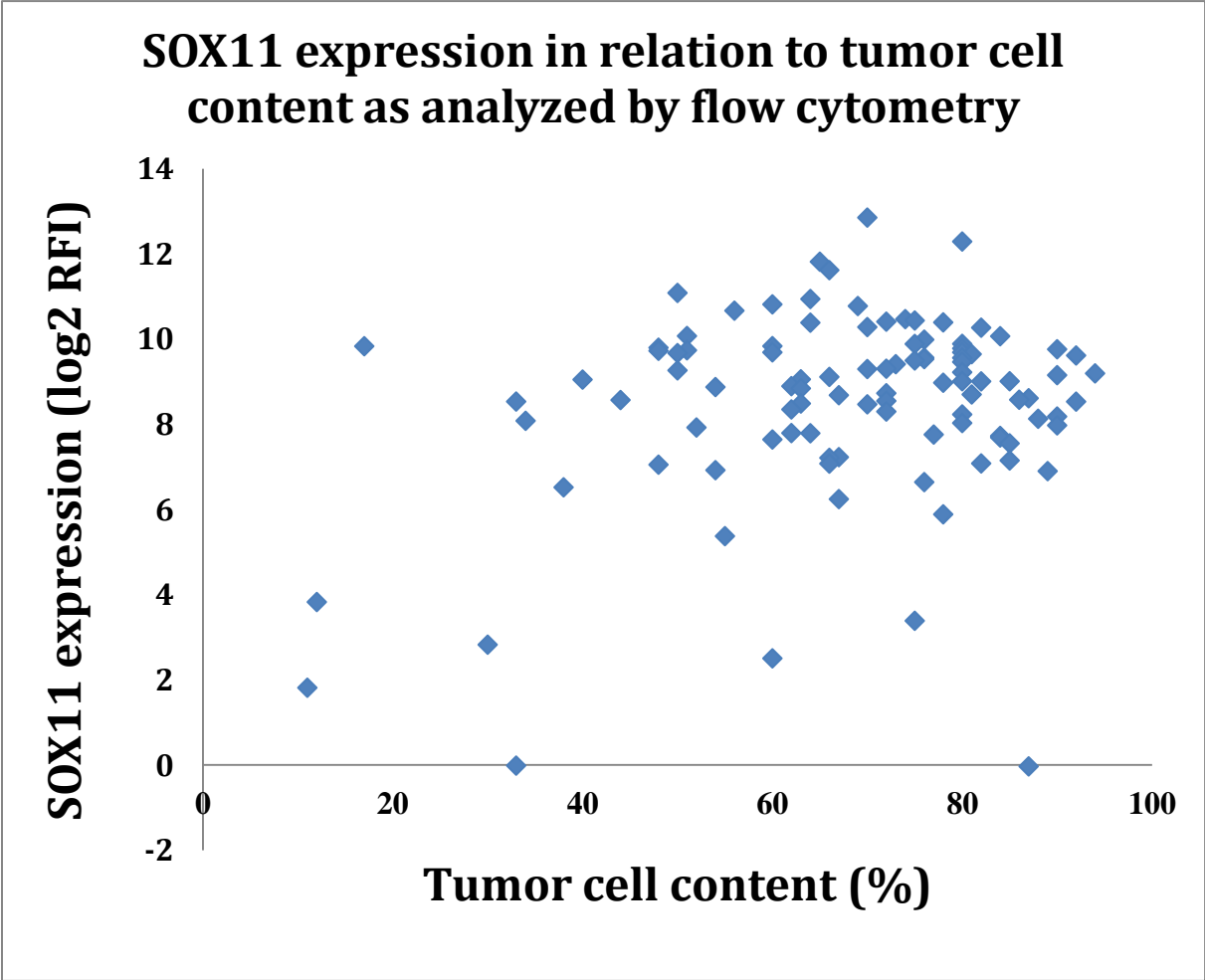
## Figure legends

Fig. S-1. SOX11 expression in relation to tumor cell content as analyzed by flow cytometry.

SOX11 expression was analyzed by qPCR as described in Material and Methods and is expressed as LOG2 of RFI values. The two lowest cases with RFI 0.98 and RFI 0.01 are presented together for clarity. The log2 SOX11 RFI values of these cases were -0.02 and -6.64 respectively. Tumor cell content was analyzed by flow cytometry and MCL cells were identified by expression of CD19 and CD20 and light chain restriction. Results are expressed as percentage of total cells. There was no correlation between tumor cell content and SOX11 mRNA expression ( $p=0.73$ , Spearman rank correlation).

Fig. S-2. Kaplan-Meier analysis of overall survival (OS) in MCL patients not receiving autologous stem cell transplantation (ASCT) ( $n=73$ ). The red line represent cases with low SOX11 expression; the lowest quartile of SOX11 RFI values ( $n= 18$ ) and the blue line the second, third and fourth quartiles combined ( $n= 55$ ). The OS among all 73 patients was 2210 days (6 years), in the SOX11 low quartile 1855 days (5 years) and in the remaining 55 patients 2578 days (7 years) ( $p=0,0012$ , log rank test).

Supplementary Figure 1



Supplementary Figure 2

